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EDISON ELECTRIC INSTITUTE is the association of electric companies. Its members serve 96 percent of all customers served by the investor-owned segment of the industry. They generate approximately 75 percent of all the electricity in the country and service 73 percent of all ultimate customers in the nation.

Organized in 1933 and incorporated in 1970, EEI provides a principal forum where electric utility people exchange information on developments in their business, and maintain liaison between the industry and the Federal government. Its officers act as spokesmen for investor-owned electric utility companies on subjects of national interest.

Since 1933, EEI has been a strong, continuous stimulant to the art of making electricity. A basic objective is the "advancement in the public service of the art of producing, transmitting, and distributing electricity and the promotion of scientific research in such field." EEI ascertains factual information, data and statistics relating to the electric industry, and makes them available to member companies, the public, and government representatives.

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STATISTICAL YEARBOOK

OF THE ELECTRIC UTILITY INDUSTRY/1984

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PUBLICATIONS PREPARED BY THE STATISTICS DEPARTMENT

Catalogue of Investor-Owned Electric Utility Companies Operating in the United States.
Complete reference of investor-owned electric utility names and addresses, arranged on a state basis according to location of principal office. Holding companies and systems, and jointly-owned companies are cross-referenced with operating subsidiaries. Ranking of companies according to number of ultimate customers is presented. Published annually in the winter. 42p.

Data Tape of Tables Contained in the Statistical Yearbook.
The reel of magnetic tape (standard label, 6250 BPI, EBCDIC) contains 72 files corresponding to all of the tables printed in the hard-copy version of the Statistical Yearbook. Each file is identified by a data set name in the form: TABLEnn. Documentation is provided showing positional layouts of the data elements in each file. The incorporation of this tape into a data base will facilitate the retrieval and manipulation of series dealing with most aspects of the electric utility industry.

Digest of Utility Financial Ratios.
Provides a method of calculating approximately 100 ratios used by the utility industry in analyzing financial reports. Categories of ratios include Earnings and Return; Common Dividend; Coverages, Interest and Preferred Dividend; Balance Sheet; Revenue and Sales; Expense; Tax; Plant; Depreciation; other ratios, such as funds used during construction as percent of earnings and per share, capital expenditures, etc. Prepared by EEI Financial Ratios Subcommittee of the Statistical Committee. 28p.

EEI Pocketbook of Electric Utility Industry Statistics.
A pocket-sized quick reference of national electric utility industry data, some dating from 1902 to the present. Categories include data on installed capacity, generation, capital and finance, sales, revenue, customers, fuels and private and ~~public~~ ownership. Published annually in late fall. 36p

Electric Power Annual Report.
Replaces and combines the Year-End and the Annual Electric Power Surveys. Historical and projected data are presented concerning the electric power supply, expansion of electric generating facilities, and the manufacture of heavy electric power equipment in the U.S. as of the end of the year. Power supply data including peak loads, capability to meet loads, kilowatthour requirements, load factors, and comparison between summer and winter seasons are shown on a total industry basis for each of the nine reliability councils and for total contiguous U.S. Also included are orders and shipment information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems. Published annually in the summer. 44p.

Glossary of Electric Utility Terms.
Defines the principal statistical reporting terms commonly used in the electric utility industry. Since the last revision in 1970 the Glossary has been expanded to include information and terms on Load Management/Rate Design, Nuclear Generation and additional terms on financial and general operations. Prepared by the EEI Glossary of Electric Terms Subcommittee of the Statistical Committee. 56p.

Guidelines for Defining & Classifying Electric Customers by Major Energy Use.
Provides guidelines within the electric utility industry for counting, classifying, and summarizing customers, categorizing sales and revenues by major energy use, and determining average use and average revenue per customer. The report contains definitions as well as the application of the definitions to specific situations and problem areas. Historically, the industry has based its classifications on rate schedules and it is probable that the recommendations in this report are unsuitable for rate analysis. However, the recommendations are offered as a basis for making a more significant market-oriented representation of sales statistics available to the industry, security analysts, and others with interest in electric utilities. 8p.

Post-Summer Electric Power Survey.
Reports results of a scheduled generating additions survey as of July 1, and a summer peak load survey as of September 15. Contains first actual regional capability, peak load and percent capacity margin values for the summer season just completed. Also includes information on the manufacture of heavy electric power equipment in the U.S. and foreign-made equipment to be imported by U.S. electric power systems, orders and shipments during the first half of the year and backlogs as of July 1. The presentation of NERC fuel projections has been transferred to this report from the discontinued April issue. Published near the end of each year. 40p.

Problems and Limitations of Intercompany Comparisons of Investor-Owned Electric Utilities.
Assists analysts and others who may wish to make industry-wide comparisons of investor-owned electric utilities. The report illustrates some of the main factors that can facilitate valid intercompany differences in performances. The Executive Summary briefly examines some of the more important factors that lead to performance differences between companies. The Discussion Section covers in greater detail many of the factors that can generate invalid and inaccurate comparisons. Prepared by EEI Problems and Limitations Subcommittee of the Statistical Committee. 51p.

Statistical Releases.
Yearly subscription includes: 1) Electric Output, issued weekly for nine geographic divisions and total U.S.; data for latest 52-week period and calendar year to date; latest quarterly data for installed capacity, generation, customers and sales 2) Quarterly Statistical Report, presents latest sources of electricity, including net generation, net imports of electricity, and net amounts available for distribution; customers, sales, and revenues by class of electric service; average use and revenue data 3) Advance Release, issued in summer, includes selected tables that appear later in Statistical Yearbook 4) Statistical Yearbook of the Electric Utility Industry.

Statistical Yearbook of the Electric Utility Industry.
Data compiled from company reports and other sources on operational and financial aspects of the total electric utility industry. Categories include national and state statistics on installed capacity; electric generation and supply; sales, revenue and customers by class of service; investor-owned data are presented for operating and related ratios; fuel use; financial; and general economics series. Prepared under the general guidance of the EEI Statistical Committee. Published annually in the fall. 101p.

Statistics on Fuel Used to Generate Electricity by the Electric Utility Industry.
In this reformatted report, fuel data are presented for the United States by state and Census Division, detailed by type of fuel (coal, oil, natural gas and nuclear) for both the Total Electric Utility Industry and the Investor-Owned segment. Units consumed, fuel cost in cents per kilowatthour, generation, heat rate and average Btu content are shown for the most recent and four preceding years. Published annually in the fall. 50p.

Order card located in back of book.

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Scope and Coverage

This publication presents data on the electric utility industry, including generation, energy sales, customers and revenues, financial and economic. These data are collected and compiled from various sources as indicated on page 3. In all sections, except the Financial Section, data are presented for Investor-Owned Electric Utilities and the Total Electric Utility Industry. Dissimilarity between the investor-owned and the publicly-owned segments of the electric utility industry would make overall financial data incompatible even if it were available. Therefore, in the Financial Section, data are shown for Investor-Owned Electric Utilities only.

1984 in Review

The installed generating capacity of the electric utility industry for December 31, 1984, was 672,462 megawatts, an increase of 2.2 percent over December 31, 1983.

No. of units added during 1984

Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
13	19	7	None

Statistics on capacity and generation from pumped storage are included in hydroelectric and those for gas turbine are included in conventional steam.

The electric utility industry continues to reduce its dependency on foreign oil for generating electricity. A comparison between 1984 and 1983 presents the following information:

- Generation of electricity in the United States increased about 4.6 percent.
- Generation by oil decreased to 5.7 percent from 7.3 percent of thermal generation.
- Generation by hydroelectric power decreased 3.3 percent. Generation by natural gas increased to 14.3 percent from 13.9 percent of thermal generation.
- Generation by coal increased from 63.9 percent to 64.3 percent and generation by nuclear power plants increased from 14.9 percent to 15.7 percent of total thermal generation. Nuclear is surpassed only by coal as a fuel for our nation's essential electric power supply.

Electric output, representing the total amount of electricity available for distribution, during 1984 was 4.4 percent higher than in 1983. Electricity consumption growth in the first half of the year was measurably affected by the strength of the industrial sector and the very cold first quarter when compared to 1983. The Central Industrial Region experienced and sustained a surprisingly vigorous recovery from the severe 1981-1982 recession while the Mountain region rebounded in 1984 after enduring the worst economic downturn in almost 20 years.

The heat of the summer produced the highest electric output with the week ending August 11th showing an electric output record of 54.1 billion kilowatthours. The peak load for the nation increased 0.8 percent in 1984 thus maintaining the U.S. capacity margin at 25 percent.

Energy sales to ultimate customers totalled 2,285,532 million kilowatthours, an increase of approximately 5.8 percent over the previous year. Total utility revenues from ultimate customers were $142.3 billion in 1984, an increase of 9.8 percent over the previous year, resulting mainly from rate increases granted during the current and past years coupled with an overall increase in sales. Residential revenues were up 8.8 percent, revenues from commmercial customers increased 11.0 percent while there was a 10.5 percent rise in industrial revenues.

The total number of ultimate customers as of December 31, 1984, was 98,939,668. Approximately 88.5 percent of this total were residential customers. In 1984 residential customers increased 2.0 percent from 1983. This increase can be partially attributed to a 10.9 percent increase in the number of new residential homes completed (including mobile homes shipped) in 1984.

For the Investor-Owned Electric Utilities the 1984 electric operating revenues increased 9.7 percent to $120.1 billion. Contributing to the increase in revenues were economic recovery and growth, increased sales, and rate increases granted during 1983 and 1984. Electric operating expenses increased 9.6 percent to over $97.3 billion. The cost of fuel represented 55.3 percent of total operation and maintenance expenses, down from 57.5 percent in 1983. Electric operating income of $22.8 billion was 19.0 percent of total operating revenues. Retained earnings reached $40.4 billion, a 14.3 percent increase over the $35.4 billion recorded in 1983.

In 1984 electric plant construction expenditures for the investor-owned electric utilities totalled $35.3 billion, including nuclear fuel. Of this total, $7.9 billion was the allowance for funds used during construction (AFUDC), a non-cash item of current income which is added to the plant account for future collection.

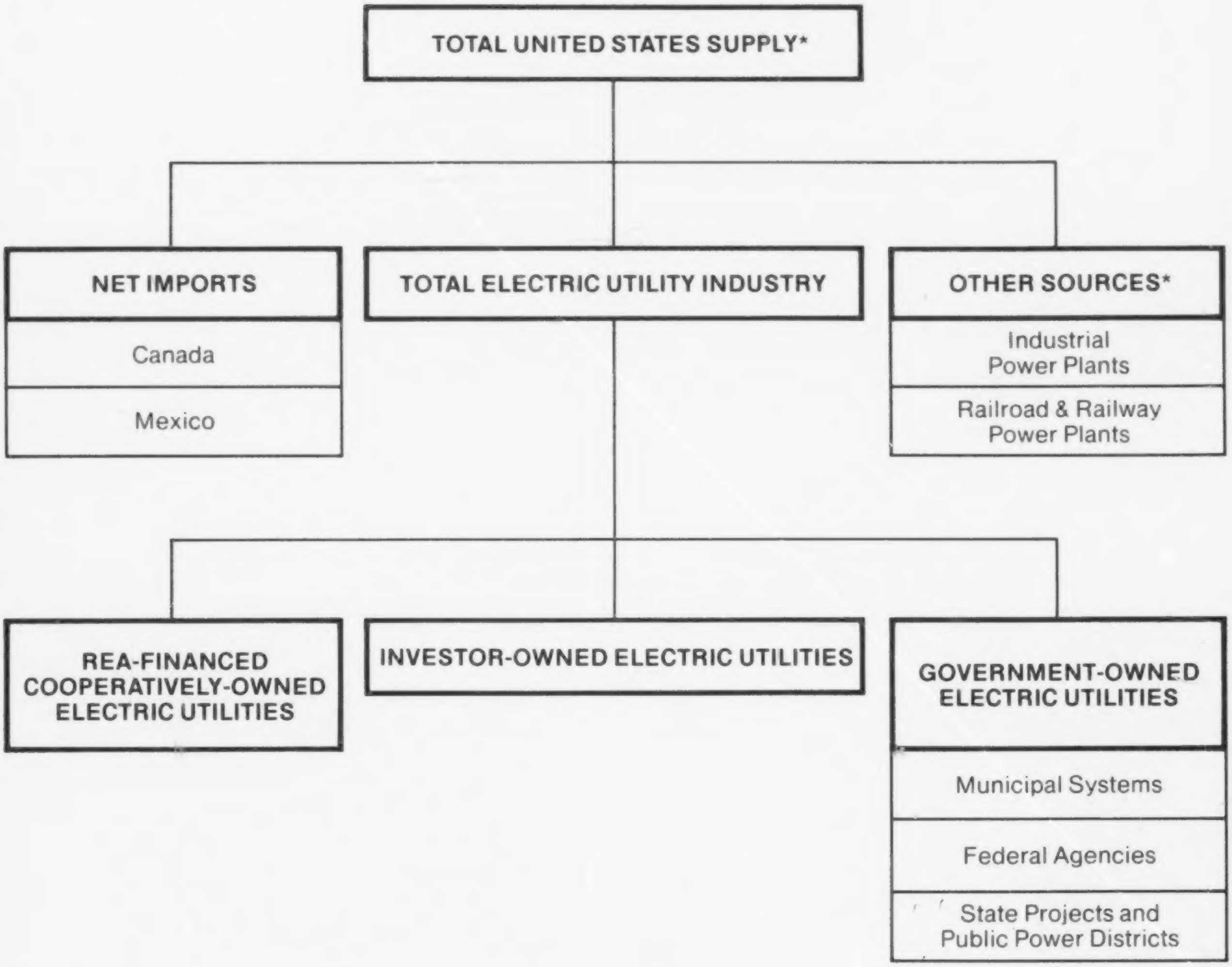
Total interest charges aggregated $11.8 billion up 10.5 percent over 1983. The cost of new long-term debt issued during 1984 has been estimated to be about 14.3 percent.

Since 1975 long-term debt as a percentage of total capitalization has gradually declined from 52.6 to 48.2 percent in 1984. Correspondingly, common capital stock equity increased from 34.6 to 41.6 percent by year-end 1984.

The average common stock dividend payout ratio was 66 percent in 1984. Ten years ago it was 67 percent. The earned return on average common equity averaged 14.4 percent from 14.1 percent in 1983. During 1984, the investor-owned electric utilities were granted a total of $4,745 million in rate increases on an annualized basis. This is 11.7 percent below the $5,373 million granted in 1983. AFUDC as a percentage of net income after preferred dividends and before common dividends was 48.8 percent, the lowest annual level in five years.

In 1984 the investor-owned electric utilities raised $10.2 billion in new long-term financing, a 14.1 percent decrease from 1983. Of this total, 82.8 percent was long-term debt, 8.5 percent was common stock and the remaining 8.7 percent was preferred stock. Additionally, the industry raised an estimated $3.1 billion in new equity capital as a result of participation by stockholders in dividend reinvestment plans. This is a 6 percent increase above the $2.9 billion raised in 1983. The new equity capital included not only dividend reinvestment, but also supplementary cash contributions by the stockholders.

UNITED STATES SOURCES OF ELECTRIC GENERATION BY TYPE OF OWNERSHIP


TOTAL UNITED STATES SUPPLY*
NET IMPORTS
Canada
Mexico
TOTAL ELECTRIC UTILITY INDUSTRY
OTHER SOURCES*
Industrial Power Plants
Railroad & Railway Power Plants
REA-FINANCED COOPERATIVELY-OWNED ELECTRIC UTILITIES
INVESTOR-OWNED ELECTRIC UTILITIES
GOVERNMENT-OWNED ELECTRIC UTILITIES
Municipal Systems
Federal Agencies
State Projects and Public Power Districts

** Does not include generation of isolated plants in institutions, hotels, apartment houses, office buildings, amusement parks, etc., for which information is not available.*

SUMMARY

	Total Electric Utility Industry			
			Increase	
	1984	1983	Amount	Percent
GENERATING CAPACITY—SECTION I (kW in Thousands)				
Installed Nameplate at Beginning of Year	658,182	650,105	8,077	1.2
Added During Year	...	...	...	...
Retired During Year	...	...	...	...
Net Adjustments*	...	...	...	...
Balance at December 31	672,462	658,182	14,280	2.2
ELECTRIC POWER SUPPLY—SECTION II (kW in Thousands)				
Capability at Time of Summer Peak Load (Contiguous U.S.)	604,240	596,449	7,791	1.3
Non-Coincident Summer Peak Load (Contiguous U.S.)	451,150	447,526	3,624	0.8
Capacity Margin (Contiguous U.S.)	25.3%	25.0%		
GENERATION—SECTION III (kWh in Millions)				
Hydro	321,150	332,130	(10,980)	(3.3)
Conventional Steam	1,765,608	1,682,268	83,340	5.0
Nuclear Steam	327,634	293,677	33,957	11.6
Internal Combustion	1,901	2,207	(306)	13.9
Total Generation	2,416,304**	2,310,285**	106,019	4.6
Purchases from Industrial Sources	20,310	15,323	4,987	32.5
Imports from Canada and Mexico	42,219	38,668	3,551	9.2
Total Energy Input†	2,478,833**	2,364,276**	114,557	4.8
FUEL—SECTION IV				
Average Cost of Fuel per net kWh	2.41¢	2.40¢r	0.01¢	0.4
Lbs. of Coal per Net kWh Generated	0.990	0.993	(0.003)	(0.3)
Average Btu per Net kWh Generated	10,300	10,547r	(247)	(2.3)
ENERGY—SECTION V (BTUs in Quadrillion)				
Annual Production of Energy	65.51p	61.20r	4.31	7.0
Total Energy Supply & Disposition	77.54p	74.22r	3.32	4.5
ENERGY SALES—SECTION VI (kWh in Millions)				
Residential	780,679p	750,293r	30,386	4.0
Commercial	583,422p	545,601r	37,821	6.9
Industrial	835,989p	782,984r	53,005	6.8
Street and Highway Lighting	14,130p	13,944r	186	1.3
Other	71,312p	66,965r	4,347	6.5
Total Sales to Ultimate Customers	2,285,532p	2,159,787r	125,745	5.8
Exports to Canada and Mexico	2,558	3,337r	(779)	(23.3)
Energy Accounted for but Not Sold	14,775p	13,283r	1,492	11.2
Lost and Unaccounted for	175,968p	187,869r	(11,901)	(6.3)
Total Disposition of Energy†	2,478,833p	2,364,276r	114,557	4.8
kWh Used per Customer (Average for Year)				
Residential	8,993p	8,814r	179	2.0
Commercial	55,915p	53,822r	2,093	3.9
Total Ultimate Customer	23,295p	22,479r	816	3.6
CUSTOMERS AT YEAR END—SECTION VII (Thousands)				
Residential	87,538p	85,842r	1,696	2.0
Commercial	10,513p	10,266r	247	2.4
Industrial	509p	500r	9	1.8
Street and Highway Lighting	154p	154r	0	0.0
Other	226p	223r	3	1.3
Total Ultimate Customers	98,940p	96,986r	1,954	2.0
REVENUES—SECTION VIII (Millions of Dollars)				
Residential	$ 55,750p	$ 51,226r	$ 4,524	8.8
Commercial	41,200p	37,103r	4,097	11.0
Industrial	40,459p	36,612r	3,847	10.5
Street and Highway Lighting	1,368p	1,325r	43	3.2
Other	3,532p	3,323r	209	6.3
Total Revenues from Ultimate Customers	$ 142,310p	$ 129,589r	$12,721	9.8
Exports to Canada and Mexico	22	8	14	175.0
Total Revenues from Sales of Energy	$ 142,332p	$ 129,597r	$12,735	9.8
Average Annual Revenue per Customer:				
Residential	$ 642.23p	$ 601.77r	$ 40.46	6.7
Commercial	$3,948.62p	$3,660.14r	$288.48	7.9
Total Ultimate Customers	$1,450.45p	$1,348.80r	$101.65	7.5
Average Revenue per kWh:				
Residential	7.14¢p	6.83¢r	0.31¢	4.5
Commercial	7.06¢p	6.80¢r	0.26¢	3.8
Total Ultimate Customer	6.23¢p	6.00¢r	0.23¢	3.8
ECONOMICS & OTHER—SECTION X				
Miles of Overhead Electric Line, 22 kV and Above	599,773	590,655r	9,118	1.5
Employees of Investor-Owned Electric Utilities	516,100	513,200	2,900	0.6
Plant Ratio-kWh Generated/kW of Capacity‡	3,632	3,532	100	2.8

Note: Total may not equal sum of components due to independent rounding.

**Represents reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.*

***Generation by wind included in total—1983, 2.7 kWh in millions; 1984, 6.5 kWh in millions. Beginning 1984 generation by solar included in total—5.2 kWh in millions.*

†Excludes industrial for own use. ‡On basis of installed nameplate capacity.

p Preliminary. r Revised. ( ) Denotes negative figure.

	Investor-Owned Electric Utilities			
			Increase	
FINANCIAL—SECTION IX (Millions of Dollars)	1984	1983	Amount	Percent
COMBINED BALANCE SHEETS:				
ASSETS				
Utility Plant:				
Electric	$372,516	$343,600	$28,916	8.4
Accumulated Provision for Depreciation and Amortization	77,938	70,527	7,411	10.5
Net Electric Utility Plant	294,578	273,073	21,505	7.9
Nuclear Fuel	11,587	9,421	2,166	23.0
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	4,219	3,755	464	12.4
Net Nuclear Fuel	7,368	5,665	1,703	30.1
Net Total Electric Utility Plant	301,946	278,738	23,208	8.3
Other	18,567	20,058	(1,491)	(7.4)
Accumulated Provision for Depreciation and Amortization	6,368	6,546	(178)	(2.7)
Net Other Utility Plant	12,199	13,513	(1,314)	(9.7)
Total Utility Plant	402,670	373,078	29,592	7.9
Accumulated Provision for Depreciation and Amortization	88,525	80,828	7,697	9.5
Net Total Utility Plant Including Nuclear Fuel	314,145	292,250	21,895	7.5
Other Property and Investment	9,359	8,367	992	11.9
Total Current and Accrued Assets	37,823	33,196	4,627	13.9
Total Deferred Debits	18,065	12,001	6,064	50.5
Total Assets	$379,392	$345,814	$33,578	9.7
LIABILITIES				
Capitalization:				
Common Capital Stock	$ 47,842	$ 44,742	$ 3,100	6.9
Other Paid-In Capital Excluding Retained Earnings	33,886	31,580	2,306	7.3
Retained Earnings	40,423	35,369	5,054	14.3
Total Common Capital Stock Equity	122,151	111,691	10,460	9.4
Preferred Stock	29,882	29,479	403	1.4
Total Long-Term Debt	141,693	132,278	9,415	7.1
Total Capitalization	293,727	273,448	20,279	7.4
Total Current and Accrued Liabilities	36,851	33,898	2,953	8.7
Total Deferred Credits and Operating Reserves	22,232	17,258	4,974	28.8
Contributions in Aid of Construction	145	135	10	7.4
Deferred Income Taxes	26,438	21,075	5,363	25.4
Total Liabilities	$379,392	$345,814	$33,578	9.7
COMBINED INCOME STATEMENTS:				
Operating Revenues—Electric Department	$120,090	$109,446	$10,644	9.7
Operating Expenses Including Maintenance	68,161	62,892	5,269	8.4
Depreciation, Depletion and Amortization	9,249	8,370	879	10.5
Taxes	19,883	17,523	2,360	13.5
Total Operating Expenses	97,294	88,788	8,506	9.6
Operating Income	22,796	20,658	2,138	10.3
Other Income (Non-Operating), Net	7,290	6,716	574	8.5
Other Departments	1,378	1,091	287	26.3
Income before interest Charges (Gross Income)	31,465	28,466	2,999	10.5
Total Interest Charges	11,771	10,649	1,122	10.5
Income before Extraordinary Items	19,694	17,816	1,878	10.5
Extraordinary Items	(22)	(228)	206	NA
Net Income	19,672	17,589	2,083	11.8
Preferred Dividend Charges	2,828	2,715	113	4.2
Available for Common Stock	16,844	14,874	1,970	13.2
Common Dividends	11,077	10,306	771	7.5
Net Income After Dividends	$ 5,767	$ 4,568	$ 1,199	26.2
Electric Utility Financing:				
Long-Term Debt	$ 9,121	$ 7,583	$ 1,538	20.3
Preferred Stock	888	1,903	(1,015)	(53.3)
Common Stock	930	3,083	(2,153)	(69.8)
Total Capital	$ 10,940	$ 12,568	$ (1,628)	(13.0)
Construction Expenditures				
Production	$ 23,939	$ 24,935	$ (996)	(4.0)
Transmission	2,250	2,371	(121)	(5.1)
Distribution	5,899	5,021	878	17.5
Other	3,197	3,238	(41)	(1.3)
Total	$ 35,285	$ 35,565	$ (280)	(0.8)

Note: Total may not equal sum of components due to independent rounding.

( ) Denotes negative figure. N/A Not available.

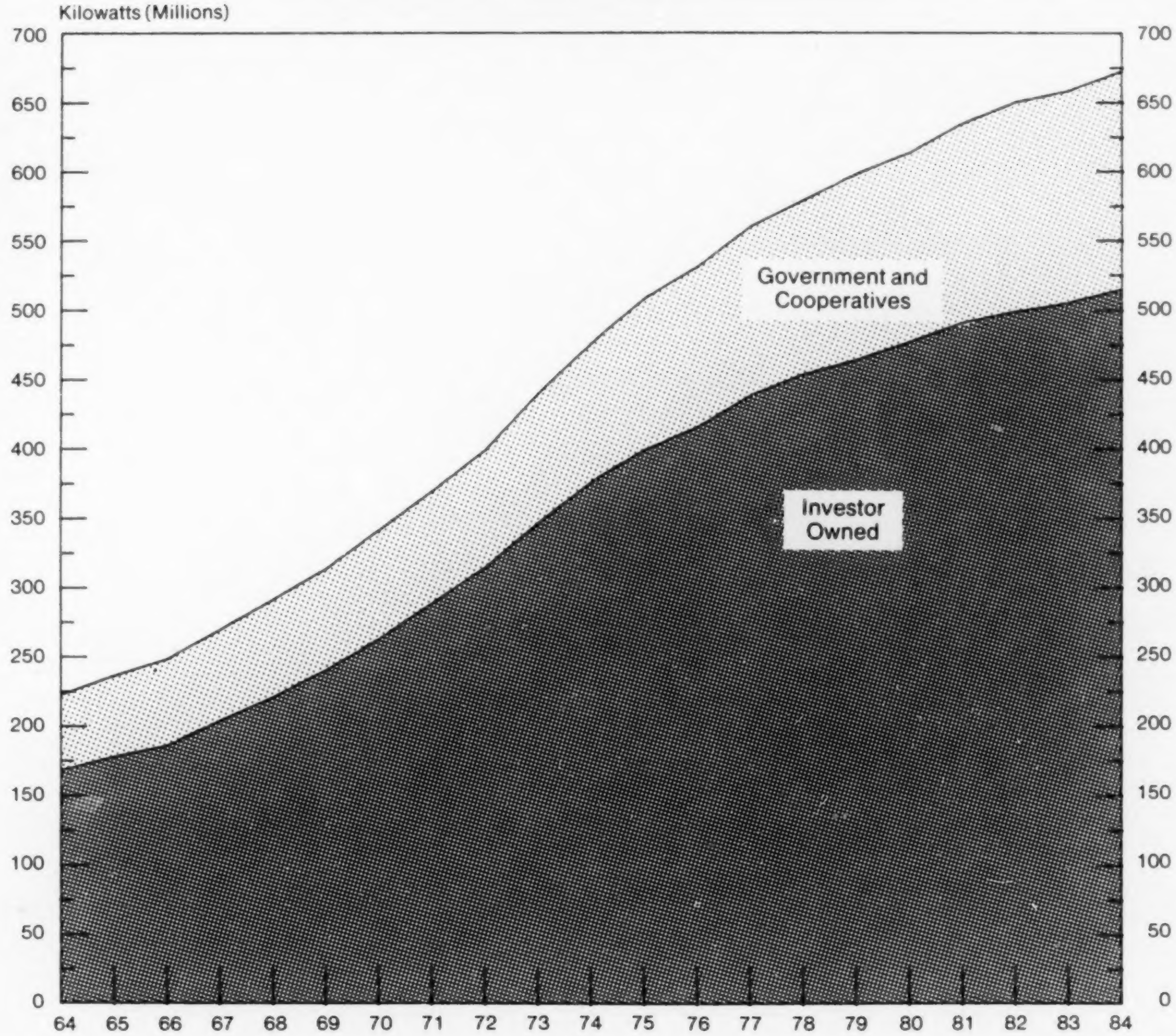
GENERATING CAPACITY

SECTION I

CHART I-A

INSTALLED GENERATING CAPACITY

TOTAL UNITED STATES



Based on Table 1, page 7.
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 1

INSTALLED GENERATING CAPACITY IN THE UNITED STATES

KILOWATTS IN THOUSANDS (NAMEPLATE)

December 31st	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States
1984	**514,863**	**157,600**	**672,462**	**N/A**	**672,462****
1983	505,487	152,695	658,182	16,765e	674,947
1982	499,111	150,994	650,105	16,938e	667,043
1981	490,767	144,041	634,808	17,142e	651,950
1980	477,083	136,612	613,695	17,323e	631,018
1979	464,144	134,299	598,443	17,436	615,879
1978	453,647	125,665	579,312	19,391	598,703
1977	438,385	121,976	560,361	19,245	579,606
1976	415,504	115,658	531,162	19,113	550,275
1975	399,036	109,378	508,414	19,177	527,591
1974	376,122	100,046	476,168	19,351	495,519
1973	346,476	93,399	439,875	19,377	459,252
1972	314,353	84,400	398,753	18,768	417,521
1971	288,301	80,779	369,080	19,297	388,377
1970	262,675	78,415	341,090	19,237	360,327
1969	240,078	73,271	313,349	19,257	332,606
1968	220,766	70,292	291,058	19,123	310,181
1967	203,580	65,672	269,252	18,933	288,185
1966	185,671	62,172	247,843	18,973	266,816
1965	177,570	58,557	236,127	18,393	254,520
1964	167,704	54,581	222,285	18,186	240,471

Note: Total may not equal sum of components due to independent rounding.

**Estimates for this category since 1984 no longer deemed appropriate due to non-reporting of capacity data from industrial, mine and railway electric power plants.*

***Excludes Other Sources.*

N/A Not available.

e Estimated by EEI.

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 2

INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAMEPLATE)

At December 31	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Capacity of Generators Driven by All Types of Prime Mover)							
1984	**672,462**	**514,863**	**24,738**	**132,862**	**36,717**	**63,304**	**32,841**
1983	658,182	505,487	22,202	130,493	36,598	62,973	30,923
1982	650,105	499,111	21,463	129,530	35,819	62,544	31,168
1981	634,808	490,767	18,406	125,635	35,125	60,982	29,527
1980	613,695	477,083	15,422	121,190	34,598	59,083	27,509
1979	598,443	464,144	13,837	120,462	34,525	58,346	27,591
1978	579,312	453,647	11,635	114,030	34,426	54,282	25,322
1977	560,361	438,385	10,889	111,087	33,291	53,183	24,613
1976	531,162	415,504	9,947	105,711	30,602	51,707	23,402
1975	508,414	399,036	9,136	100,242	28,787	50,133	21,322
1974	476,168	376,122	7,474	92,572	27,324	45,518	19,730
1973	439,875	346,476	7,288	86,111	24,956	44,520	16,635
1972	398,753	314,353	6,704	77,696	23,049	40,408	14,239
1971	369,080	288,301	5,470	75,309	21,992	39,656	13,661
1970	341,090	262,675	5,162	73,253	20,941	38,718	13,594
1969	313,349	240,078	4,318	68,953	20,035	36,130	12,788
1968	291,058	220,766	3,434	66,858	19,429	34,956	12,473
1967	269,252	203,580	3,019	62,653	18,049	33,640	10,964
1966	247,843	185,671	2,758	59,414	16,548	32,608	10,258
1965	236,127	177,570	2,309	56,248	15,407	31,690	9,151
1964	222,285	167,704	2,017	52,564	15,199	28,343	9,022
HYDRO (Capacity of Generators Driven by Water Wheels and Turbines)							
1984	**80,590**	**26,127**	**81**	**54,382**	**4,850**	**37,139**	**12,393**
1983	78,968	24,977	81	53,910	4,781	36,803	12,326
1982	78,128	24,584	81	53,464	4,729	36,378	12,357
1981	77,145	24,319	67	52,759	4,686	35,891	12,182
1980	76,378	24,227	67	52,084	4,692	35,212	12,180
1979	75,351	23,916	67	51,368	4,693	34,495	12,180
1978	71,014	23,847	67	47,100	4,694	30,431	11,975
1977	68,762	23,158	67	45,537	4,431	29,332	11,774
1976	67,757	23,134	67	44,556	4,010	29,031	11,515
1975	65,949	23,115	67	42,767	3,760	27,480	11,527
1974	63,560	22,737	54	40,769	3,814	25,447	11,508
1973	61,782	21,770	56	39,956	3,334	25,582	11,040
1972	56,386	19,122	54	37,210	3,330	24,336	9,544
1971	55,912	19,076	54	36,782	3,260	24,056	9,466
1970	55,056	18,850	56	36,150	3,195	23,499	9,456
1969	52,753	18,444	56	34,253	3,195	22,054	9,004
1968	51,168	18,337	57	32,774	3,177	20,905	8,692
1967	48,112	18,134	57	29,921	2,623	19,589	7,709
1966	44,977	16,381	57	28,539	2,005	19,531	7,003
1965	43,782	16,096	58	27,628	2,005	18,717	6,906
1964	42,188	15,296	58	26,834	1,979	17,947	6,908
CONVENTIONAL STEAM (Capacity of Generators Driven by Steam Engines and Turbines)							
1984	**516,537**	**429,047**	**24,278**	**63,212**	**27,788**	**20,244**	**15,181**
1983	507,136	422,944	21,767	62,424	27,737	20,244	14,444
1982	503,804	420,863	21,011	61,930	27,026	20,246	14,658
1981	491,287	413,571	17,939	59,778	26,199	20,392	13,187
1980	475,276	403,031	14,954	57,291	25,697	20,393	11,201
1979	462,999	392,349	13,375	57,275	25,599	20,378	11,298
1978	449,231	383,024	11,073	55,134	25,511	20,378	9,245
1977	436,426	371,976	10,429	54,021	24,590	20,378	9,053
1976	415,181	355,263	9,061	50,857	22,396	20,355	8,106
1975	397,649	340,907	8,264	48,478	20,843	20,332	7,303
1974	375,940	323,490	7,017	45,433	20,395	18,899	6,139
1973	352,072	303,536	6,836	41,700	18,511	18,917	4,272
1972	322,201	279,129	6,254	36,818	16,895	16,052	3,871
1971	299,996	260,016	5,018	34,962	16,026	15,576	3,360
1970	275,191	236,792	4,761	33,638	15,141	15,194	3,303
1969	252,411	217,196	3,925	31,290	14,291	14,051	2,948
1968	233,095	199,285	3,031	30,779	13,807	14,026	2,946
1967	214,435	182,340	2,608	29,487	13,046	14,026	2,415
1966	197,415	167,370	2,348	27,697	12,230	13,052	2,415
1965	188,054	159,800	1,902	26,352	11,197	12,948	2,207
1964	175,871	150,753	1,617	23,501	11,056	10,371	2,074

See page 9 for footnotes.

TABLE 2 (continued)

INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTS IN THOUSANDS (NAMEPLATE)

At December 31	Total Electric Utility Industry*	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Capacity of Generators Driven by Nuclear Reactors)							
1984	**70,484**	**58,380**	**50**	**12,054**	**963**	**5,897**	**5,194**
1983	67,073	56,069	50	10,954	963	5,897	4,094
1982	63,042	52,038	50	10,954	963	5,897	4,094
1981	60,776	50,992	50	9,734	963	4,677	4,094
1980	56,488	47,960	50	8,478	963	3,456	4,059
1979	54,593	46,065	50	8,478	963	3,456	4,059
1978	53,527	44,984	65	8,478	963	3,456	4,059
1977	49,880	41,654	55	8,171	963	3,456	3,752
1976	42,918	35,419	480	7,019	963	2,304	3,752
1975	39,754	33,539	480	5,735	963	2,304	2,468
1974	31,662	28,397	55	3,210	–	1,152	2,058
1973	21,118	19,766	53	1,299	–	–	1,299
1972	15,302	14,449	53	800	–	–	800
1971	8,688	7,833	55	800	–	–	800
1970	6,493	5,693	–	800	–	–	800
1969	3,980	3,180	–	800	–	–	800
1968	2,817	2,017	–	800	–	–	800
1967	2,887	2,087	**	800**	**	–	800
1966	1,942	1,142**	**	800**	**	–	800
1965	926	926**	**	**	**	–	**
1964	906	906**	**	**	**	–	**
INTERNAL COMBUSTION (Capacity of Generators Driven by Internal Combustion Engines)							
1984	**4,841**	**1,306**	**330**	**3,205**	**3,115**	**17**	**73**
1983	4,996	1,494	304	3,198	3,117	22	58
1982	5,131	1,627	321	3,182	3,101	22	60
1981	5,600	1,885	351	3,364	3,278	22	65
1980	5,553	1,865	351	3,337	3,246	22	69
1979	5,500	1,814	345	3,341	3,270	17	54
1978	5,540	1,792	430	3,318	3,258	17	43
1977	5,293	1,597	338	3,358	3,307	17	34
1976	5,306	1,688	339	3,279	3,233	17	29
1975	5,062	1,475	325	3,262	3,221	17	24
1974	5,006	1,498	348	3,160	3,115	20	25
1973	4,903	1,404	343	3,156	3,111	21	24
1972	4,864	1,653	343	2,868	2,824	20	24
1971	4,484	1,376	343	2,765	2,706	24	35
1970	4,350	1,340	345	2,665	2,605	25	35
1969	4,205	1,258	337	2,610	2,549	25	36
1968	3,978	1,127	346	2,505	2,445	25	35
1967	3,818	1,019	354	2,445	2,380	25	40
1966	3,509	778	353	2,378	2,313	25	40
1965	3,365	748	349	2,268	2,205	25	38
1964	3,320	749	342	2,229	2,164	25	40

Note: Total may not equal sum of components due to independent rounding.

Beginning 1983 wind turbine capacity included in total; Total Electric Utility Industry (1983)—9.3 kW in thousands; Investor-Owned Utilities—2.8 kW in thousands; Federal—6.5 kW in thousands. Total Electric Utility Industry (1984)—9.6 kW in thousands; Investor-Owned Utilities—2.9 kW in thousands; Municipal Utilities—0.1 kW in thousands; Federal—6.6 kW in thousands. Beginning 1984 solar capacity included in total; Total Electric Utility Industry—1.0 kW in thousands; Municipal Utilities—1.0 kW in thousands.

***Generator capacity of the following plants is included in Conventional Steam:*
Piqua—Piqua Municipal Power Plant, Ohio
Elk River—Rural Cooperative Power Assoc., Minnesota
Sheldon—Consumer's Public Power District, Nebraska
Parr—South Carolina Electric & Gas Co., South Carolina

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 3

INSTALLED GENERATING CAPACITY
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st. 1983 and 1984—KILOWATTS IN THOUSANDS (NAMEPLATE)

	Total Electric Utility Industry*		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1984	1983	1984	1983	1984	1983	1984	1983	1984	1983
Total United States	**672,462**	**658,182**	**80,590**	**78,968**	**516,537**	**507,136**	**70,484**	**67,073**	**4,841**	**4,996**
Maine	2,380	2,392	365	370	1,104	1,104	864	864	47	54
New Hampshire	1,536	1,536	389	389	1,147	1,147	—	—	—	—
Vermont	1,010	945	203	198	223	164	563	563	20	20
Massachusetts	10,096	10,079	1,655	1,639	7,405	7,405	863	863	173	172
Rhode Island	270	270	2	2	243	243	—	—	26	26
Connecticut	6,095	6,113	132	132	3,770	3,789	2,172	2,172	20	20
New England	**21,387**	**21,336**	**2,746**	**2,730**	**13,892**	**13,852**	**4,462**	**4,462**	**287**	**292**
New York	32,501	31,902	5,003	4,998	23,318	22,725	4,068	4,068	111	111
New Jersey	13,372	13,783	389	389	10,092	10,501	2,890	2,890	*	2
Pennsylvania	33,798	34,826	1,649	1,649	26,826	26,894	5,250	6,211	72	72
Middle Atlantic	**79,670**	**80,511**	**7,041**	**7,036**	**60,237**	**60,119**	**12,208**	**13,169**	**184**	**186**
Ohio	27,301	27,777	50	50	26,184	26,659	962	962	106	106
Indiana	20,178	18,624	93	93	20,033	18,478	—	—	53	53
Illinois	31,931	30,976	27	27	23,787	23,783	7,850	6,888	267	278
Michigan	23,122	22,628	2,323	2,323	17,259	16,767	3,172	3,172	368	365
Wisconsin	10,683	10,770	403	400	8,556	8,650	1,633	1,633	91	87
East North Central	**113,216**	**110,775**	**2,896**	**2,894**	**95,819**	**94,338**	**13,616**	**12,655**	**884**	**889**
Minnesota	8,522	8,641	143	142	6,327	6,448	1,755	1,755	297	296
Iowa	8,672	8,719	130	130	7,552	7,592	597	597	393	400
Missouri	15,645	15,708	1,004	1,004	14,330	14,340	—	—	311	364
North Dakota	4,186	3,751	430	430	3,728	3,290	—	—	28	31
South Dakota	2,308	2,315	1,383	1,383	862	862	—	—	63	70
Nebraska	5,941	5,971	234	234	4,100	4,146	1,338	1,338	268	254
Kansas	9,592	9,587	2	2	9,046	9,047	—	—	543	538
West North Central	**54,865**	**54,693**	**3,326**	**3,326**	**45,946**	**45,725**	**3,690**	**3,690**	**1,902**	**1,953**
Delaware	2,032	2,032	—	—	2,022	2,022	—	—	11	11
Maryland	10,396	9,776	494	494	8,010	7,390	1,829	1,828	64	64
District of Columbia	868	868	—	—	868	868	—	—	—	—
Virginia	11,610	11,610	955	955	6,967	6,967	3,655	3,655	34	34
West Virginia	15,079	15,079	101	101	14,979	14,979	—	—	—	—
North Carolina	19,744	18,335	1,846	1,847	13,721	13,533	4,174	2,954	2	2
South Carolina	13,783	13,219	2,264	2,264	7,129	6,619	4,389	4,335	1	1
Georgia	18,408	17,517	2,031	2,031	14,672	13,781	1,700	1,700	5	5
Florida	33,691	31,881	30	30	29,258	27,448	4,110	4,110	292	293
South Atlantic	**125,611**	**120,318**	**7,720**	**7,720**	**97,626**	**93,606**	**19,857**	**18,582**	**408**	**409**
Kentucky	16,437	15,956	747	747	15,677	15,195	—	—	14	14
Tennessee	18,275	18,270	3,780	3,774	12,054	12,054	2,441	2,441	—	—
Alabama	19,171	19,211	2,751	2,743	11,188	11,235	5,233	5,233	—	—
Mississippi	6,122	6,122	—	—	6,122	6,122	—	—	—	—
East South Central	**60,006**	**59,558**	**7,277**	**7,264**	**45,041**	**44,607**	**7,674**	**7,674**	**14**	**14**
Arkansas	9,627	8,785	1,086	1,086	6,657	5,815	1,845	1,845	38	38
Louisiana	15,427	15,571	—	—	15,289	15,393	—	—	137	178
Oklahoma	13,003	12,401	968	968	11,900	11,299	—	—	135	135
Texas	57,312	57,443	581	581	56,532	56,661	—	—	199	201
West South Central	**95,369**	**94,200**	**2,635**	**2,635**	**90,379**	**89,168**	**1,845**	**1,845**	**510**	**552**
Montana	4,044	3,212	2,204	2,099	1,835	1,108	—	—	5	5
Idaho	2,026	2,027	1,969	1,969	50	50	—	—	7	8
Wyoming	5,846	5,846	234	234	5,590	5,591	—	—	16	15
Colorado	7,493	6,797	889	889	6,189	5,492	342	342	74	74
New Mexico	5,648	5,413	24	24	5,597	5,297	—	—	26	92
Arizona	11,026	10,862	2,276	2,113	8,746	8,746	—	—	4	4
Utah	3,044	3,034	211	205	2,799	2,794	—	—	34	34
Nevada	4,532	4,532	682	682	3,787	3,787	—	—	64	64
Mountain	**43,659**	**41,722**	**8,489**	**8,215**	**34,592**	**32,863**	**342**	**342**	**230**	**295**
Washington	23,239	21,795	18,989	18,891	2,287	2,040	1,960	860	4	4
Oregon	10,573	10,609	8,040	8,041	1,311	1,347	1,216	1,216	6	6
California	41,942	39,847	11,247	10,056	27,035	27,167	3,613	2,578	44	44
Pacific	**75,754**	**72,251**	**38,275**	**36,987**	**30,633**	**30,553**	**6,789**	**4,654**	**53**	**53**
Alaska	1,363	1,259	180	158	931	861	—	—	251	240
Hawaii	1,564	1,561	3	3	1,442	1,444	—	—	118	113
Alaska & Hawaii	**2,927**	**2,819**	**184**	**161**	**2,373**	**2,305**	**—**	**—**	**369**	**353**

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983, wind turbine capacity included in total—9 kW in thousands; 1984 Total—10 kW in thousands. Beginning 1984, solar energy capacity included in total—1 kW in thousands.*

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 4

INSTALLED GENERATING CAPACITY INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
AT DECEMBER 31st, 1983 and 1984—KILOWATTS IN THOUSANDS (NAMEPLATE)

	Total Investor-Owned Utilities†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1984	1983	1984	1983	1984	1983	1984	1983	1984	1983
Total United States	**514,863**	**505,487**	**26,127**	**24,977**	**429,047**	**422,944**	**58,380**	**56,069**	**1,306**	**1,494**
Maine	2,371	2,378	364	369	1,104	1,104	864	864	39	41
New Hampshire	1,536	1,536	389	389	1,147	1,147	–	–	–	–
Vermont	877	872	188	183	108	108	563	563	17	17
Massachusetts	9,158	9,132	1,644	1,628	6,546	6,536	863	863	104	104
Rhode Island	269	269	–	–	243	243	–	–	26	26
Connecticut	6,025	6,044	129	129	3,718	3,737	2,172	2,172	6	6
New England	**20,235**	**20,230**	**2,714**	**2,699**	**12,867**	**12,875**	**4,462**	**4,462**	**192**	**194**
New York	25,461	24,847	888	882	22,361	21,753	2,172	2,172	40	40
New Jersey	13,259	13,668	387	387	9,982	10,391	2,890	2,890	–	–
Pennsylvania	33,790	34,819	1,649	1,649	26,820	26,887	5,250	6,211	72	72
Middle Atlantic	**72,510**	**73,334**	**2,923**	**2,918**	**59,163**	**59,031**	**10,312**	**11,273**	**111**	**111**
Ohio	26,420	26,899	48	48	25,352	25,830	962	962	59	59
Indiana	18,720	17,176	93	93	18,595	17,050	–	–	32	32
Illinois	30,686	29,731	14	14	22,794	22,790	7,850	6,888	28	39
Michigan	21,516	21,024	2,288	2,288	15,896	15,404	3,172	3,172	160	160
Wisconsin	9,369	9,457	368	366	7,396	7,490	1,583	1,583	23	19
East North Central	**106,712**	**104,286**	**2,811**	**2,808**	**90,032**	**88,565**	**13,566**	**12,605**	**302**	**309**
Minnesota	7,527	7,643	139	139	5,628	5,741	1,755	1,755	5	9
Iowa	7,399	7,441	127	127	6,639	6,677	597	597	36	41
Missouri	11,179	11,258	596	596	10,572	10,582	–	–	12	80
North Dakota	625	628	–	–	622	622	–	–	3	6
South Dakota	797	803	*	*	742	742	–	–	55	61
Nebraska	–	–	–	–	–	–	–	–	–	–
Kansas	7,083	7,182	2	2	7,076	7,155	–	–	6	25
West North Central	**34,611**	**34,956**	**863**	**863**	**31,278**	**31,518**	**2,352**	**2,352**	**117**	**223**
Delaware	1,851	1,851	–	–	1,850	1,850	–	–	1	1
Maryland	10,320	9,699	494	494	7,986	7,366	1,829	1,828	11	11
District of Columbia	868	868	–	–	868	868	–	–	–	–
Virginia	11,331	11,331	719	719	6,942	6,942	3,655	3,655	15	16
West Virginia	15,079	15,079	101	101	14,979	14,979	–	–	–	–
North Carolina	19,172	17,951	1,477	1,477	13,520	13,520	4,174	2,954	–	–
South Carolina	10,764	10,710	1,845	1,845	4,529	4,529	4,389	4,335	*	*
Georgia	17,133	16,242	773	773	14,655	13,764	1,700	1,700	5	5
Florida	26,934	26,234	*	*	22,792	22,092	4,110	4,110	31	31
South Atlantic	**113,451**	**109,965**	**5,410**	**5,410**	**88,121**	**85,909**	**19,857**	**18,582**	**64**	**64**
Kentucky	8,205	7,723	111	111	8,094	7,613	–	–	–	–
Tennessee	172	172	172	172	–	–	–	–	–	–
Alabama	10,070	10,117	1,485	1,485	6,808	6,856	1,777	1,777	–	–
Mississippi	5,348	5,348	–	–	5,348	5,348	–	–	–	–
East South Central	**23,794**	**23,361**	**1,767**	**1,767**	**20,251**	**19,817**	**1,777**	**1,777**	**–**	**–**
Arkansas	8,269	7,427	65	65	6,344	5,502	1,845	1,845	14	14
Louisiana	12,581	12,711	–	–	12,518	12,615	–	–	63	96
Oklahoma	10,318	9,717	–	–	10,285	9,683	–	–	34	34
Texas	46,851	46,902	10	10	46,789	46,853	–	–	52	39
West South Central	**78,019**	**76,756**	**75**	**75**	**75,936**	**74,654**	**1,845**	**1,845**	**163**	**182**
Montana	2,748	2,021	909	909	1,835	1,108	–	–	5	5
Idaho	1,367	1,367	1,312	1,312	50	50	–	–	5	5
Wyoming	3,894	3,894	*	*	3,880	3,880	–	–	14	14
Colorado	3,869	3,869	340	340	3,167	3,167	342	342	20	20
New Mexico	5,224	5,224	–	–	5,202	5,136	–	–	22	88
Arizona	3,567	3,567	7	7	3,556	3,556	–	–	4	4
Utah	2,858	2,850	67	65	2,785	2,780	–	–	5	5
Nevada	3,860	3,860	9	9	3,787	3,787	–	–	64	64
Mountain	**27,385**	**26,651**	**2,644**	**2,642**	**24,261**	**23,463**	**342**	**342**	**139**	**205**
Washington	3,224	2,978	965	965	2,257	2,010	–	–	3	3
Oregon	3,914	3,950	1,432	1,433	1,260	1,296	1,216	1,216	6	6
California	29,369	27,394	4,507	3,382	22,179	22,363	2,650	1,615	30	30
Pacific	**36,507**	**34,321**	**6,904**	**5,779**	**25,696**	**25,669**	**3,866**	**2,831**	**39**	**39**
Alaska	74	67	12	12	–	–	–	–	62	55
Hawaii	1,564	1,561	3	3	1,442	1,444	–	–	118	113
Alaska & Hawaii	**1,638**	**1,627**	**15**	**15**	**1,442**	**1,444**	**–**	**–**	**180**	**168**

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983, wind turbine capacity included in total—3 kW in thousands; 1984 total—3 kW in thousands.

**Less than five hundred kilowatts.*

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 5

CHANGES IN INSTALLED GENERATING CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY*

BY TYPE OF PRIME MOVER DRIVING THE GENERATOR

1965-1984—KILOWATTS IN THOUSANDS (NAMEPLATE)

At December 31	New Additions	Retirements	Adjustments**		Net Additions
			Plus	Minus	
1984‡					
Hydro	....	....	....	....	1,622
Steam	....	....	....	....	12,812
Internal Combustion	....	....	....	....	(155)
Total	....	....	....	....	14,280
1983‡					
Hydro	....	....	....	....	840
Steam	....	....	....	....	7,363
Internal Combustion	....	....	....	....	(135)
Total	....	....	....	....	8,077
1982‡					
Hydro	....	....	....	....	983
Steam	....	....	....	....	14,783
Internal Combustion	....	....	....	....	(469)
Total	....	....	....	....	15,297
1981‡					
Hydro	....	....	....	....	767
Steam	....	....	....	....	20,299
Internal Combustion	....	....	....	....	47
Total	....	....	....	....	21,113
1980‡					
Hydro	....	....	....	....	1,027
Steam	....	....	....	....	14,172
Internal Combustion	....	....	....	....	53
Total	....	....	....	....	15,252
1979‡					
Hydro	....	....	....	....	4,337
Steam	....	....	....	....	14,834
Internal Combustion	....	....	....	....	(40)
Total	....	....	....	....	19,131
1978‡					
Hydro	....	....	....	....	2,252
Steam	....	....	....	....	16,452
Internal Combustion	....	....	....	....	247
Total	....	....	....	....	18,951
1977‡					
Hydro	....	....	....	....	1,005
Steam	....	....	....	....	28,207
Internal Combustion	....	....	....	....	(13)
Total	....	....	....	....	29,199
1976‡					
Hydro	....	....	....	....	1,808
Steam	....	....	....	....	20,696
Internal Combustion	....	....	....	....	244
Total	....	....	....	....	22,748
1975‡					
Hydro	....	....	....	....	2,389
Steam	....	....	....	....	29,801
Internal Combustion	....	....	....	....	56
Total	....	....	....	....	32,246
1974‡					
Hydro	....	....	....	....	1,778
Steam	....	....	....	....	34,412
Internal Combustion	....	....	....	....	103
Total	....	....	....	....	36,293
1973‡					
Hydro	....	....	....	....	5,396
Steam	....	....	....	....	35,687
Internal Combustion	....	....	....	....	39
Total	....	....	....	....	41,122
1972‡					
Hydro	....	....	....	....	474
Steam	....	....	....	....	28,819
Internal Combustion	....	....	....	....	380
Total	....	....	....	....	29,673
1971‡					
Hydro	....	....	....	....	856
Steam	....	....	....	....	27,000
Internal Combustion	....	....	....	....	134
Total	....	....	....	....	27,990
1970					
Hydro	2,244	48	109	3	2,302
Steam	25,506	905	882	190	25,293
Internal Combustion	242	40	42	98	146
Total	27,992	993	1,033	291	27,741
1969					
Hydro	1,638	115	64	2	1,585
Steam	19,837	856	1,605	107	20,479
Internal Combustion	219	39	78	31	227
Total	21,694	1,010	1,747	140	22,291
1968					
Hydro	3,015	80	145	24	3,056
Steam	18,830	697	593	136	18,590
Internal Combustion	210	57	39	32	160
Total	22,055	834	777	192	21,806
1967					
Hydro	3,320	215	30	–	3,135
Steam	17,992	459	578	146	17,965
Internal Combustion	364	56	24	23	309
Total	21,676	730	632	169	21,409
1966					
Hydro	1,240	51	8	2	1,195
Steam	10,486	565	604	148	10,377
Internal Combustion	183	54	24	9	144
Total	11,909	670	636	159	11,716
1965					
Hydro	1,661	64	2	5	1,594
Steam	11,943	773	1,202	169	12,203
Internal Combustion	102	70	19	6	45
Total	13,706	907	1,223	180	13,842

Note: *Total may not equal sum of components due to independent rounding.*

**Beginning 1983 wind turbine capacity included in total—9 kW in thousands; 1984 total—10 kW in thousands. Beginning 1984 solar energy capacity included in total—1 kW in thousands.*

***Adjustments are result of reclassification in ownership between industrial and electric utility plants and rerating of turbines within the Electric Utility Industry.*

( ) Denotes negative figure.

‡Complete data not available at time of printing. *Source: U.S. Department of Energy. Energy Information Administration.* Monthly Power Plant Report. *(EIA-759).*

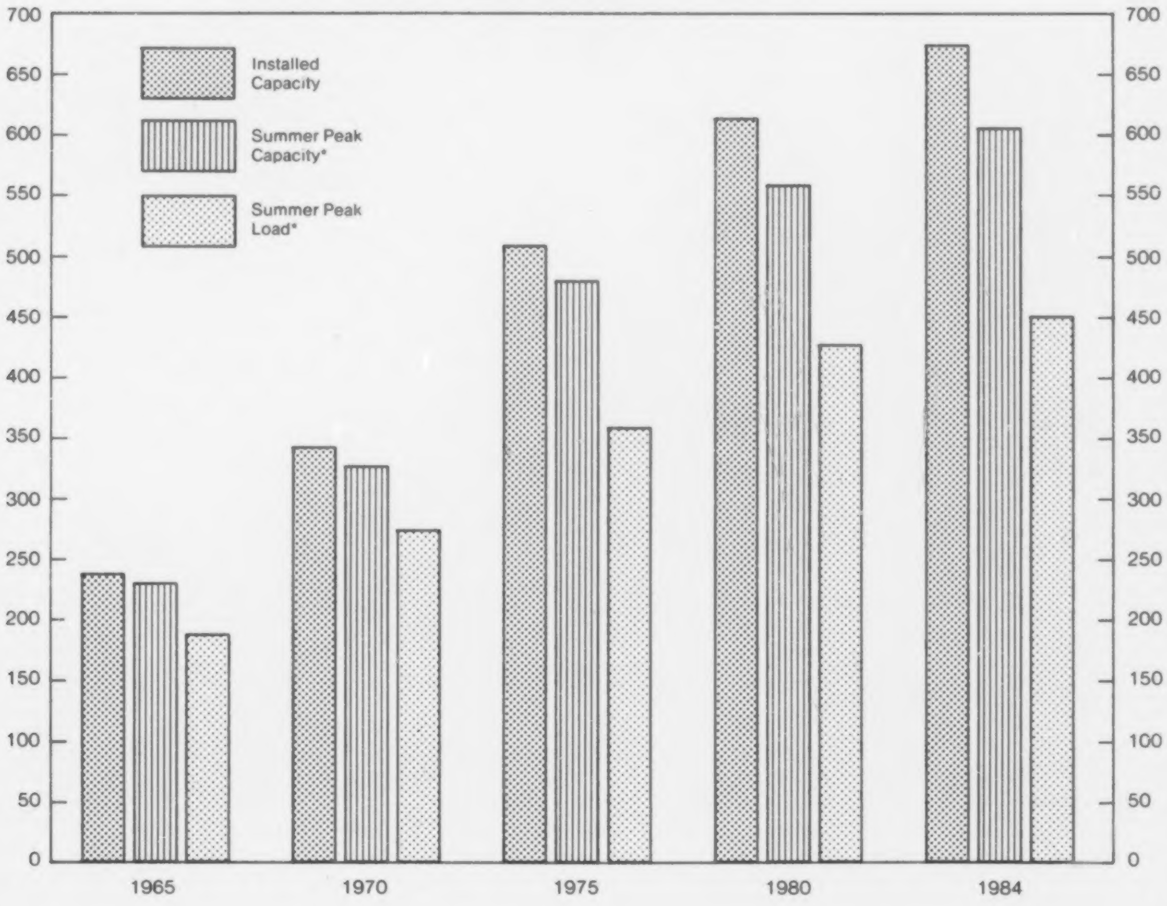
ELECTRIC POWER SUPPLY

SECTION II

CHART II-A

CAPACITY, CAPABILITY & PEAK LOAD

TOTAL ELECTRIC UTILITY INDUSTRY



*Excludes Alaska and Hawaii.
Based on Table 2, page 8 and Table 7, page 14.
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759); Edison Electric Institute,* Electric Power Annual Report.

TABLE 7

CAPABILITY*—PEAK LOAD—KILOWATTHOUR REQUIREMENTS TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)

Year	Capability at Time of Summer Peak Load (MW)	Non-Coincident Summer Peak Load (MW)	Capability at Time of Winter Peak Load (MW)†	Non-Coincident Winter Peak Load (MW)†	Capacity Margin Based on Non-Coincident Peak Load (%)†‡	Annual Kilowatthour Requirements (in Millions)	Annual Load Factor Based on Peak Load (%)
1984p	**604,240**	**451,150**	**616,573**	**436,313**	**25.3**	**2,445,603**	**59.7**
1983	596,449	447,526	611,637	410,779	25.0	2,341,633	59.5r
1982	586,142	414,909	596,930	373,318	29.2	2,258,744	62.1
1981	572,219	428,295	581,084	391,106	25.2	2,311,006	61.2r
1980	558,237	427,058	572,195	384,567	23.5	2,292,718	61.0r
1979	544,506	398,424	554,525	368,876	26.8	2,246,927	64.4
1978	545,700	408,050	561,550	383,100	25.2	2,218,700	62.1
1977	516,000	396,350	537,600	360,200	23.2	2,132,300	61.4
1976	498,750	370,900	511,000	349,850	25.6	2,039,500	62.6
1975	479,300	356,800	492,450	331,100	25.6	1,919,500	61.4
1974	444,400	349,250	467,400	302,500	21.4	1,871,700	61.2
1973	415,500	343,900	433,150	295,100	17.2	1,868,800	62.0
1972	381,700	319,150	394,050	290,950	16.4	1,752,200	62.5
1971	353,250	292,100	366,700	261,650	17.3	1,617,100	63.2
1970	326,900	274,650	339,050	248,550	16.0	1,536,400	63.9
1969	300,300	257,650	311,450	236,600	14.2	1,446,000	64.1
1968	278,950	238,000	288,750	226,700	14.7	1,327,200	63.5
1967	257,950	213,450	267,750	205,850	17.3	1,221,500	65.3
1966	240,700	203,350	247,650	193,700	15.5	1,152,900	64.7
1965	228,900	186,300	235,700	180,400	18.6	1,060,100	65.0
1964	216,500	175,000	222,400	171,100	19.2	986,800	64.2

**Capability represents the maximum kilowatt output with all power sources available and with hydraulic equipment under actual water conditions. It must, therefore, provide the necessary allowance for maintenance, emergency outages, and system operating requirements. This rating is more indicative of the actual generating ability of existing power stations than the familiar nameplate rating as used in other tables of this publication.*

†Beginning in 1973 capability and peak load data shown under Winter represent turn-of-year data for the winter season that follows the summer peak load data for that calendar year. Previously, data in this series was always for the month of December.

‡Calculated from the maximum non-coincident peak load, summer or winter, and the capability at the time of this peak load. Percent Capacity Margin is the difference between capability and peak load divided by capability multiplied by 100.

Sources: North American Electric Reliability Council and Edison Electric Institute. All data series shown have a discontinuity between 1978 and 1979 because of the switch to NERC data. For calculation of percent changes between 1978 and 1979, see old series values for 1979 in Table 6 of 1979 edition.

p Preliminary. r Revised.

TABLE 8

ELECTRICITY MADE AVAILABLE IN THE UNITED STATES

KILOWATTHOURS IN MILLIONS

	Generation								
Year	Investor-Owned Utilities	Government and Cooperatives	Total Electric Utility Industry	Other Sources*	Total United States	Net Imports of Electric Energy	Total Available in U.S.	Estimated Population† (Thousands) (July 1)	kWh Per Person
1984	**1,848,916**	**567,388**	**2,416,304**	**N/A**	**2,416,304****	**39,661**	**2,455,965****	**236,158**	**10,400****
1983	1,764,080	546,205	2,310,285	57,352e	2,367,637	35,330	2,402,967	234,023r	10,268r
1982	1,711,576	529,635	2,241,211	61,076e	2,302,287	30,744	2,333,031	231,822r	10,064r
1981	1,785,500	509,312	2,294,812	64,446e	2,359,258	33,584	2,392,842	229,542r	10,424r
1980	1,782,933	503,481	2,286,414	67,945e	2,354,359	20,925	2,375,284	227,236	10,453
1979	1,756,170	491,189	2,247,359	71,375	2,318,734	20,334	2,339,068	224,567	10,416
1978	1,721,163	485,150	2,206,313	78,967	2,285,280	19,328	2,304,608	222,095	10,377
1977	1,684,084	440,082	2,124,166	87,575	2,211,741	17,415	2,229,156	219,760	10,144
1976	1,582,029	455,645	2,037,674	87,084	2,124,758	8,611	2,133,369	217,563	9,806
1975	1,486,844	430,775	1,917,619	85,362	2,002,981	6,185	2,009,166	215,465	9,325
1974	1,442,114	424,322	1,866,436	101,572	1,968,008	12,694	1,980,702	213,342	9,284
1973	1,448,860	407,356	1,856,216	102,529	1,958,745	14,278	1,973,023	211,357	9,335
1972	1,358,929	390,708	1,749,637	104,508	1,854,145	7,744	1,861,889	209,284	8,896
1971	1,248,596	363,993	1,612,589	103,239	1,715,828	3,530	1,719,358	206,827	8,313
1970	1,183,190	348,419	1,531,609	108,162	1,639,771	1,960	1,641,731	203,984	8,048
1969	1,102,162	340,020	1,442,182	110,575	1,552,757	1,072	1,553,829	201,385	7,716
1968	1,019,313	310,130	1,329,443	106,586	1,436,029	(631)	1,435,398	199,399	7,199
1967	928,439	285,926	1,214,365	102,935	1,317,300	(299)	1,317,001	197,457	6,670
1966	880,837	263,513	1,144,350	105,094	1,249,444	1,092	1,250,536	195,576	6,394
1965	809,474	245,778	1,055,252	102,331	1,157,583	(141)	1,157,442	193,526	5,981
1964	756,183	227,807	983,990	99,751	1,083,741	1,955	1,085,696	191,141	5,680

Note: Total may not equal sum of components due to independent rounding.

**Estimates for this category since 1984 no longer deemed appropriate due to non-reporting of generation data from industrial, mine and railway electric power plants.*

***Excludes Other Sources.*

†U.S. Department of Commerce Bureau of Census estimates; excludes Armed Forces overseas.

N/A Not available.

e Estimated by EEI. r Revised. ( ) Denotes negative figure.

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 9

TOTAL UNITED STATES KILOWATTHOUR SOURCE AND DISPOSITION

1964-1984—KILOWATTHOURS IN MILLIONS

	1984p	1983r	1982	1981	1980	1979	1978
SOURCE							
Generation							
Total Electric Utility Industry	2,416,304	2,310,285	2,241,211	2,294,812	2,286,414	2,247,359	2,206,313
Industrials*	N/A	42,029e	49,072e	56,045e	60,369e	65,341	72,297
Industrials—for Sales to Electric Utility Industry	20,310	15,323	12,004	8,401	7,576	6,034	6,670
Total Generation	**2,436,614**	**2,367,637**	**2,302,287**	**2,359,258**	**2,354,359**	**2,318,734**	**2,285,280**
Imports from Canada & Mexico	42,219	38,668	34,284	35,416	25,021	22,516	21,514
Total Kilowatthours	**2,478,833**	**2,406,305**	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**
DISPOSITION							
Total Sales to Ultimate Customers	2,285,532	2,159,787	2,099,741	2,150,674	2,126,094	2,084,400	2,017,818
Exports to Canada & Mexico	2,558	3,337	3,540	1,832	4,096	2,182	2,186
Energy Used by Producer	2,849	2,633	2,539	1,462	2,540	3,382	2,372
Company Use & Free Service	11,926	10,650	12,051	10,068	9,053	11,086	7,975
Lost and Unaccounted For	175,968	187,869	169,628	174,593	177,228	174,859	204,146
Industrials*	N/A	42,029e	49,072e	56,045e	60,369e	65,341	72,297
Total Kilowatthours	**2,478,833**	**2,406,305**	**2,336,571**	**2,394,674**	**2,379,380**	**2,341,250**	**2,306,794**

	1977	1976	1975	1974	1973	1972	1971
SOURCE							
Generation							
Total Electric Utility Industry	2,124,166	2,037,674	1,917,619	1,866,436	1,856,216	1,749,637	1,612,589
Industrials	83,543	82,406	79,340	94,955	95,761	98,241	96,495
Industrials—for Sales to Electric Utility Industry	4,032	4,678	6,022	6,617	6,768	6,267	6,744
Total Generation	**2,211,741**	**2,124,758**	**2,002,981**	**1,968,008**	**1,958,745**	**1,854,145**	**1,715,828**
Imports from Canada & Mexico	20,159	10,989	11,268	15,420	16,848	10,496	7,043
Total Kilowatthours	**2,231,900**	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**
DISPOSITION							
Total Sales to Ultimate Customers	1,950,791	1,849,625	1,733,024	1,700,769	1,703,203	1,577,714	1,466,441
Exports to Canada & Mexico	2,744	2,378	5,083	2,726	2,570	2,752	3,514
Energy Used by Producer	2,462	2,559	3,068	3,059	3,137	3,081	2,854
Company Use & Free Service	7,037	5,717	4,709	4,850	4,912	4,412	3,894
Lost and Unaccounted For	185,323	193,062	189,025	177,069	166,010	178,441	149,673
Industrials	83,543	82,406	79,340	94,955	95,761	98,241	96,495
Total Kilowatthours	**2,231,900**	**2,135,747**	**2,014,249**	**1,983,428**	**1,975,593**	**1,864,641**	**1,722,871**

	1970	1969	1968	1967	1966	1965	1964
SOURCE							
Generation							
Total Electric Utility Industry	1,531,609	1,442,182	1,329,443	1,214,365	1,144,350	1,055,252	983,990
Industrials	102,440	105,203	103,026	97,856	102,257	99,376	96,821
Industrials—for Sales to Electric Utility Industry	5,722	5,372	3,560	5,079	2,837	2,955	2,930
Total Generation	**1,639,771**	**1,552,757**	**1,436,029**	**1,317,300**	**1,249,444**	**1,157,583**	**1,083,741**
Imports from Canada & Mexico	6,169	4,902	3,654	4,051	4,268	3,558	6,209
Total Kilowatthours	**1,645,940**	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**
DISPOSITION							
Total Sales to Ultimate Customers	1,391,359	1,307,178	1,202,321	1,107,023	1,038,982	953,414	890,356
Exports to Canada & Mexico	4,209	3,830	4,285	4,350	3,176	3,699	4,253
Energy Used by Producer	2,301	2,515	2,469	2,559	2,305	2,802	3,015
Company Use & Free Service	3,984	3,626	3,399	2,956	2,755	2,434	2,303
Lost and Unaccounted For	141,647	135,307	124,183	106,607	104,237	99,416	93,202
Industrials	102,440	105,203	103,026	97,856	102,257	99,376	96,821
Total Kilowatthours	**1,645,940**	**1,557,659**	**1,439,683**	**1,321,351**	**1,253,712**	**1,161,141**	**1,089,950**

N/A Not available.

**Estimates for this category since 1984 no longer deemed appropriate due to non-reporting of generation data from Industrials.*

p Preliminary. *r Revised.* *e Estimated.*

Sources: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759); Statistics Canada and Edison Electric Institute.*

TABLE 10

WORLD POWER DATA

FIFTEEN COUNTRIES WITH GREATEST INSTALLED GENERATING CAPACITY
1983

	Installed Capacity (Kilowatts in Thousands)				Energy Production† (kWh in Millions)					
Country	Hydro	Nuclear	Thermal	Total	Hydro	Nuclear	Thermal	Total	Population (Thousands)	kWh Per Capita
United States	79,268	67,073	528,596	674,937	333,564	293,677	1,740,393	2,367,634	234,023‡	10,117
U.S.S.R.	56,985	20,000	216,573	293,558	180,362	85,000	1,142,738	1,408,100	272,500	5,167
Japan	34,335	17,874	107,181	159,390	87,095	106,276	408,986	602,357	119,205	5,053
Canada	51,000	9,100	29,700	89,800	266,024	49,069	93,350	408,443	24,882	16,415
Germany (West)	6,531	11,096	68,937	86,564	18,933	65,833	289,047	373,813	61,493	6,079
China (mainland)	29,000	—	55,000	84,000	86,360	—	265,080	351,440	1,022,054	344
France	21,200	26,800	30,200	78,200	70,600	137,000	75,800	283,400	54,652	5,186
United Kingdom	2,721	6,490	57,220	66,431	6,458	49,928	219,841	276,227	56,009	4,932
Italy	17,125	1,273	33,100	51,498	44,216	5,783	132,881	182,880	56,833	3,218
India	14,003	860	27,317	42,180	51,566	2,158	94,228	147,952	730,572	203
Brazil	34,035	—	6,062	40,097	151,471	—	10,499	161,970	131,305	1,234
Spain	13,180	1,990	16,480	31,650	27,600	9,000	78,850	115,450	38,234	3,020
Sweden	15,297	7,355	8,058	30,710	64,349	40,992	4,294	109,635	8,331	13,160
Australia	6,340	—	23,872	30,212	12,913	—	93,374	106,287	15,265	6,963
Poland	1,977	—	24,856	26,833	3,321	—	122,500	125,821	36,566	3,441

† *Data presented on a gross generation basis.*

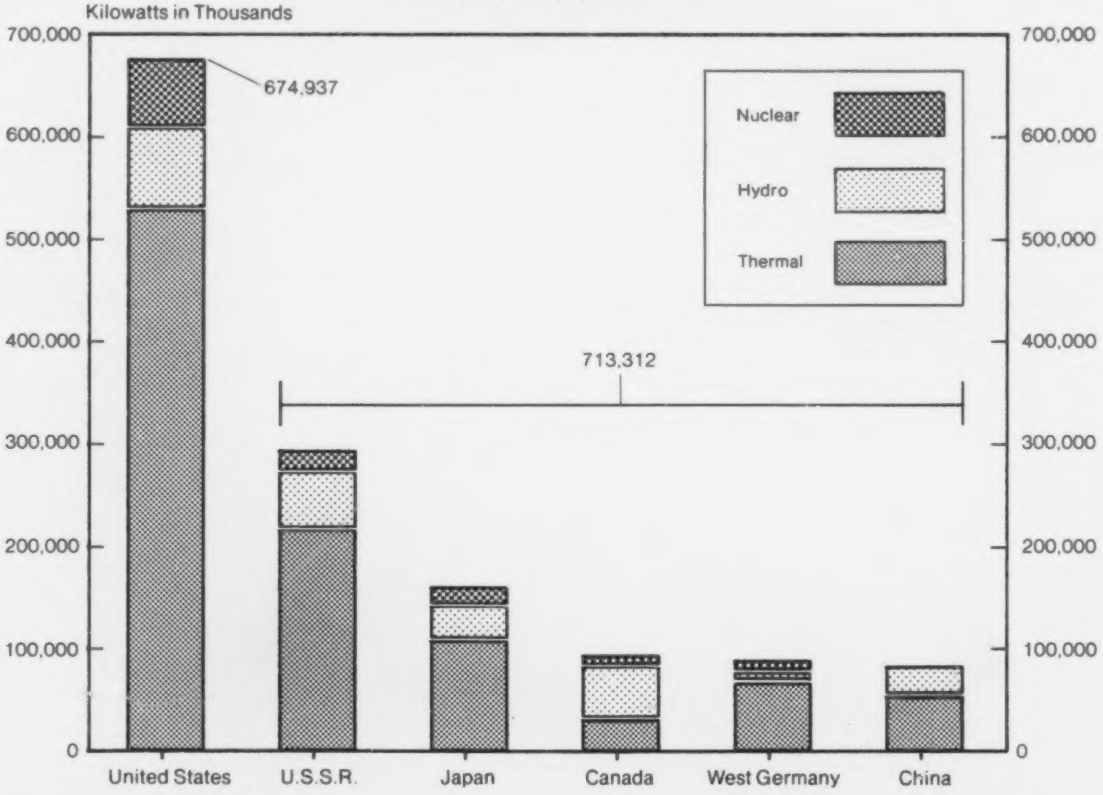
‡ *U.S. population July 1, 1983; excludes armed forces abroad. Dept. of Commerce, Bureau of Census.*

Sources: Capacity and production: UN 1983 Energy Statistics Yearbook; *population (except as noted):* The World Almanac and Book of Facts—*1985.*

CHART II-B

WORLD GENERATING CAPACITY

SIX LARGEST COUNTRIES—1983



Based on Table 10, as shown above.
Source: UN 1983 Energy Statistics Yearbook.

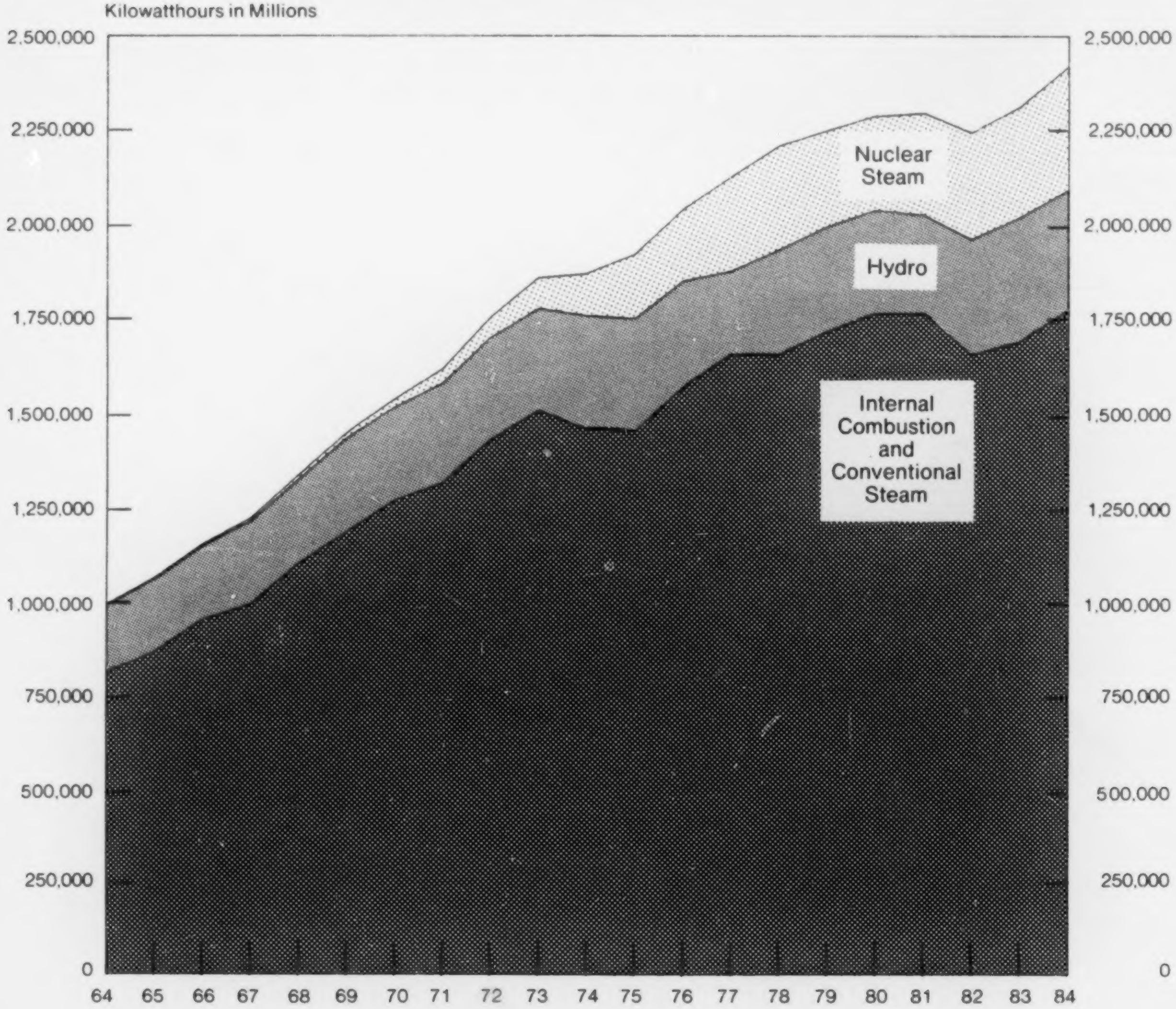
GENERATION

SECTION III

CHART III-A

GENERATION BY TYPE OF PRIME MOVER

TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 12, page 20.

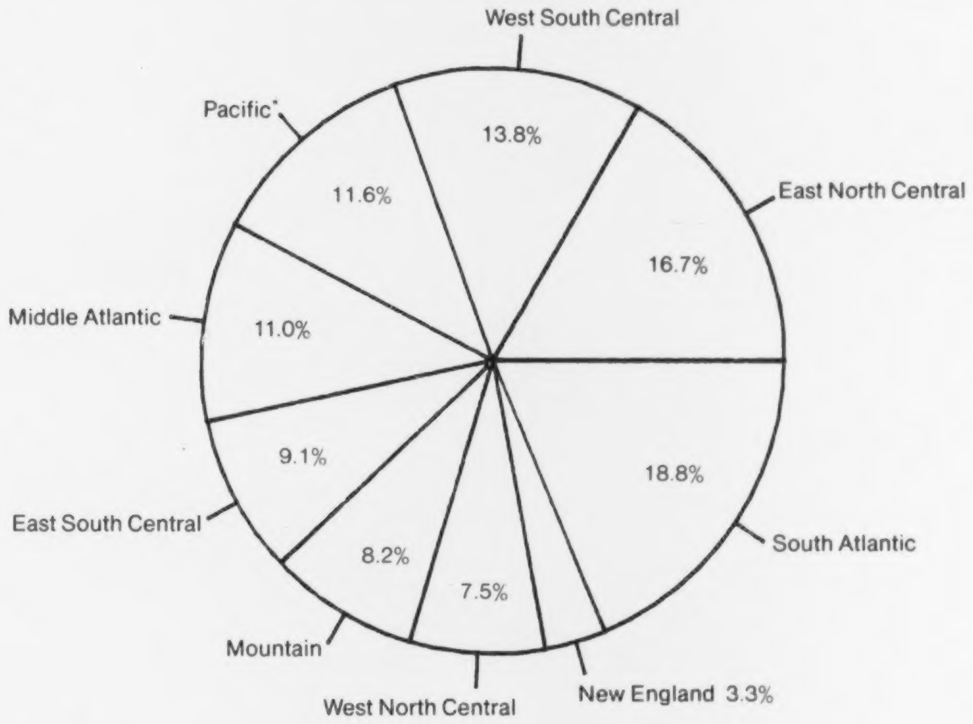
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

CHART III-B

GENERATION BY CENSUS DIVISIONS

TOTAL ELECTRIC UTILITY INDUSTRY

1984



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*Includes Alaska and Hawaii.
Based on Table 15, page 24.
Source: U.S. Department of Energy, Energy Information Administration. Monthly Power Plant Report. (EIA-759).

TABLE 12

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTHOURS IN MILLIONS

Year	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
TOTAL (Generation by All Types of Prime Mover)							
1984	**2,416,304**	**1,848,916**	**101,970**	**465,418**	**74,672**	**253,928**	**136,818**
1983	2,310,285	1,764,080	84,710	461,495	73,069	258,181	130,245
1982	2,241,211	1,711,576	77,098	452,537	76,569	241,004	134,964
1981	2,294,812	1,785,500	73,314	435,998	80,701	232,222	123,075
1980	2,286,414	1,782,933	63,550	439,931	86,579	235,051	118,301
1979	2,247,359	1,756,170	54,404	436,785	87,265	235,570	113,950
1978	2,206,313	1,721,163	48,717	436,433	89,700	235,257	111,476
1977	2,124,166	1,684,084	44,884	395,198	83,382	213,633	98,183
1976	2,037,674	1,582,029	41,223	414,422	78,176	236,024	100,222
1975	1,917,619	1,486,844	35,328	395,447	81,518	221,226	92,703
1974	1,866,436	1,442,114	33,844	390,478	78,677	219,821	91,980
1973	1,856,216	1,448,860	35,127	372,229	80,872	211,715	79,642
1972	1,749,637	1,358,929	31,714	358,994	78,931	206,668	73,395
1971	1,612,589	1,248,596	27,227	336,766	72,609	194,462	69,695
1970	1,531,609	1,183,190	23,459	324,960	71,394	185,753	67,813
1969	1,442,182	1,102,162	17,513	322,507	69,614	183,245	69,648
1968	1,329,443	1,019,313	14,140	295,990	63,804	170,834	61,352
1967	1,214,365	928,439	12,389	273,537	57,788	162,399	53,350
1966	1,144,350	880,837	11,175	252,338	52,627	153,067	46,644
1965	1,055,252	809,474	8,571	237,207	49,940	145,231	42,036
1964	983,990	756,183	7,934	219,873	50,263	129,936	39,674
HYDRO (Generation of Generators Driven by Water Wheels and Turbines)							
1984	**321,150**	**83,639**	**279**	**237,232**	**15,775**	**162,268**	**59,190**
1983	332,130	88,663	303	243,164	17,266	160,989	64,910
1982	309,213	81,527	294	227,392	17,061	148,027	62,305
1981	260,684	61,680	231	198,773	13,700	128,690	56,383
1980	276,039	70,500	267	205,272	15,603	131,909	57,760
1979	279,790	74,105	244	205,441	13,270	137,212	54,959
1978	280,432	72,381	275	207,776	14,889	136,804	56,083
1977	220,446	55,343	220	164,883	8,572	111,951	44,360
1976	283,734	68,034	221	215,479	14,444	144,218	56,817
1975	300,065	81,524	251	218,290	16,619	142,943	58,728
1974	300,928	81,204	197	219,527	17,218	137,882	64,427
1973	271,634	77,451	229	193,954	13,439	123,148	57,367
1972	272,626	76,820	220	195,586	15,152	126,328	54,106
1971	266,314	76,521	243	189,550	14,765	121,573	53,212
1970	247,456	70,587	214	176,655	14,453	110,695	51,507
1969	250,193	74,833	215	175,145	15,494	105,687	53,964
1968	222,491	67,201	239	155,051	13,043	94,874	47,134
1967	221,518	72,072	223	149,223	10,602	96,228	42,393
1966	194,756	62,827	214	131,715	8,106	86,260	37,349
1965	193,851	67,366	281	126,204	8,580	82,769	34,855
1964	177,073	60,323	219	116,531	8,460	75,771	32,300
CONVENTIONAL STEAM (Generation of Generators Driven by Steam Engines and Turbines)							
1984	**1,765,608**	**1,487,840**	**101,184**	**176,584**	**54,008**	**66,989**	**55,587**
1983	1,682,268	1,426,449	84,015	171,804	51,503	69,237	51,063
1982	1,646,883	1,396,336	76,481	174,066	54,507	65,682	53,878
1981	1,758,660	1,492,062	72,619	193,980	62,421	80,715	50,844
1980	1,755,634	1,499,918	62,803	192,913	63,899	83,715	45,299
1979	1,708,256	1,472,652	53,609	181,995	65,100	77,948	38,947
1978	1,644,756	1,415,266	47,887	181,603	66,212	81,535	33,856
1977	1,648,105	1,422,684	44,193	181,228	65,402	83,202	32,624
1976	1,557,647	1,346,179	38,409	173,059	57,547	87,584	27,928
1975	1,439,374	1,249,623	33,647	156,104	57,958	75,549	22,597
1974	1,445,808	1,261,009	32,887	151,912	56,605	75,640	19,667
1973	1,494,901	1,292,888	34,108	167,905	62,422	88,240	17,243
1972	1,416,218	1,229,998	30,713	155,507	58,814	80,324	16,369
1971	1,301,960	1,135,674	26,245	140,041	53,246	72,866	13,929
1970	1,256,294	1,092,564	22,610	141,120	52,380	75,048	13,692
1969	1,172,481	1,016,361	16,760	139,360	49,800	77,544	12,016
1968	1,089,239	942,927	13,332	132,980	46,744	75,927	10,309
1967	980,336	850,541	11,434	118,361	43,292	66,136	8,933
1966	938,910	813,329	10,104	115,477	40,405	66,769	8,303
1965	852,655	738,319	7,401	106,935	37,333	62,419	7,183
1964	798,564	692,416	6,855	99,293	37,891	54,123	7,279

See page 21 for footnotes.

TABLE 12 (continued)

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTHOURS IN MILLIONS

Year	Total Electric Utility Industry†	Investor-Owned Utilities	Cooperatives	Subtotal Government	Municipal Utilities	Federal	Power Districts, State Projects
NUCLEAR STEAM (Generation of Generators Driven by Nuclear Reactors)							
1984	**327,634**	**276,849**	**319**	**50,466**	**3,760**	**24,665**	**22,040**
1983	293,677	248,379	201	45,097	2,875	27,951	14,271
1982	282,773	233,213	137	49,423	3,349	27,294	18,780
1981	272,674	231,190	241	41,243	2,585	22,810	15,847
1980	251,121	211,831	214	39,076	4,426	19,413	15,237
1979	255,155	208,788	201	46,166	5,729	20,402	20,035
1978	276,403	232,742	174	43,487	5,046	16,911	21,530
1977	250,882	205,257	89	45,536	5,865	18,473	21,198
1976	191,107	167,098	2,157	21,852	2,161	4,214	15,477
1975	172,506	154,985	951	16,570	2,470	2,722	11,378
1974	113,727	99,042	313	14,372	198	6,289	7,885
1973	83,334	77,790	199	5,345	–	314	5,031
1972	54,092	50,933	240	2,919	–	–	2,919
1971	38,106	35,357	196	2,553	–	–	2,553
1970	21,797	19,063	120	2,614	–	–	2,614
1969	13,928	10,261	–	3,667	–	–	3,667
1968	12,528	8,611	15	3,902	–	–	3,902
1967	7,655	5,499	141	2,015	–	–	2,015
1966	5,520	4,400	129	991	2	–	989
1965	3,657	3,497	143	17	22	–	(5)
1964	3,343	3,179	56	108	17	–	91
INTERNAL COMBUSTION (Generation of Generators Driven by Internal Combustion Engines)							
1984	**1,901**	**579**	**188**	**1,133**	**1,130**	**3**	*
1983	2,207	588	190	1,429	1,425	3	1
1982	2,343	501	186	1,656	1,653	2	1
1981	2,795	568	224	2,003	1,995	7	1
1980	3,620	684	266	2,670	2,651	14	5
1979	4,158	625	350	3,183	3,166	8	9
1978	4,722	774	381	3,567	3,553	7	7
1977	4,733	800	382	3,551	3,543	7	1
1976	5,186	718	436	4,032	4,024	8	–
1975	5,674	712	479	4,483	4,471	12	–
1974	5,973	859	447	4,667	4,656	10	1
1973	6,347	731	591	5,025	5,011	13	1
1972	6,701	1,178	541	4,982	4,965	16	1
1971	6,209	1,044	543	4,622	4,598	23	1
1970	6,062	976	515	4,571	4,561	10	–
1969	5,580	707	538	4,335	4,320	14	1
1968	5,185	574	554	4,057	4,017	33	7
1967	4,856	327	591	3,938	3,894	35	9
1966	5,164	281	728	4,155	4,114	38	3
1965	5,089	292	746	4,051	4,005	43	3
1964	5,010	265	804	3,941	3,895	42	4

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983 generation by wind included in total; Total Electric Utility Industry (1983)–2.7 kWh in millions; Investor-Owned Utilities–1.5 kWh in millions; Federal–1.2 kWh in millions. Total Electric Utility Industry (1984)–6.5 kWh in millions; Investor-Owned Utilities–3.5 kWh in millions; Federal–2.9 kWh in millions. Beginning 1984 generation by solar included in total; Total Electric Utility Industry–5.2 kWh in millions; Investor-Owned Utilities–5.0 kWh in millions; Municipal Utilities–0.2 kWh in millions.

( ) Denotes negative figure.

**Less than five hundred thousand kilowatthours.*

Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759).*

TABLE 13

GENERATION PER KILOWATT OF INSTALLED NAMEPLATE CAPACITY TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
KILOWATTHOURS

Year	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned	Total Electric Utility Industry	Investor-Owned	Cooperatives	Government-Owned
	TOTAL				HYDRO			
1984	**3,632**	**3,624**	**4,345**	**3,535**	**4,025**	**3,273**	**3,444**	**4,381**
1983	3,532	3,512	3,880	3,550	4,228	3,578	3,741	4,529
1982	3,489	3,458	3,868	3,547	3,983	3,334	3,973	4,281
1981	3,676	3,690	4,335	3,533	3,396	2,541	3,448	3,792
1980	3,773	3,789	4,344	3,641	3,639	2,929	3,985	3,968
1979	3,816	3,827	4,272	3,725	3,823	3,103	3,642	4,173
1978	3,872	3,859	4,326	3,877	4,013	3,080	4,104	4,486
1977	3,892	3,945	4,308	3,646	3,230	2,391	3,284	3,660
1976	3,920	3,884	4,320	4,024	4,244	2,942	3,299	4,935
1975	3,895	3,836	4,254	4,102	4,634	3,556	4,149	5,226
1974	4,075	3,991	4,585	4,371	4,802	3,649	3,582	5,439
1973	4,427	4,385	5,021	4,545	4,597	3,788	4,164	5,027
1972	4,557	4,510	5,210	4,693	4,855	4,022	4,074	5,287
1971	4,541	4,532	5,122	4,534	4,800	4,035	4,418	5,198
1970	4,681	4,707	4,949	4,570	4,591	3,785	3,821	5,018
1969	4,772	4,783	4,518	4,749	4,815	4,069	3,805	5,226
1968	4,745	4,804	4,382	4,571	4,482	3,685	4,193	4,946
1967	4,697	4,770	4,289	4,482	4,759	4,176	3,912	5,105
1966	4,729	4,850	4,411	4,363	4,388	3,869	3,722	4,690
1965	4,604	4,689	3,963	4,360	4,510	4,292	4,845	4,635
1964	4,547	4,637	4,079	4,278	4,298	4,033	3,776	4,450
	STEAM				INTERNAL COMBUSTION			
1984	**3,605**	**3,652**	**4,399**	**3,055**	**386**	**414**	**593**	**354**
1983	3,463	3,519	3,928	2,966	436	377	608	448
1982	3,449	3,477	3,924	3,139	437	285	554	506
1981	3,748	3,764	4,417	3,478	501	303	638	598
1980	3,825	3,849	4,433	3,528	655	372	764	800
1979	3,849	3,881	4,381	3,527	753	347	903	956
1978	3,885	3,916	4,446	3,578	872	457	992	1,069
1977	4,022	4,048	4,423	3,777	893	487	1,129	1,070
1976	3,906	3,956	4,437	3,478	1,000	454	1,313	1,233
1975	3,815	3,868	4,375	3,358	1,127	479	1,423	1,396
1974	3,995	4,029	4,756	3,629	1,206	592	1,294	1,478
1973	4,441	4,444	5,200	4,298	1,300	478	1,723	1,668
1972	4,551	4,563	5,440	4,318	1,434	778	1,577	1,769
1971	4,540	4,589	5,377	4,063	1,406	769	1,578	1,702
1970	4,751	4,803	5,234	4,321	1,417	751	1,510	1,733
1969	4,820	4,869	4,819	4,493	1,364	593	1,575	1,695
1968	4,862	4,934	4,734	4,425	1,330	535	1,583	1,639
1967	4,742	4,851	4,671	4,096	1,326	364	1,672	1,633
1966	4,864	4,967	4,816	4,247	1,502	368	2,074	1,789
1965	4,682	4,749	4,288	4,291	1,523	390	2,159	1,802
1964	4,664	4,720	4,467	4,320	1,526	358	2,365	1,790

Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759), as shown in Tables 2 and 12.*

TABLE 14

GENERATION IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY OWNERSHIP AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

Year	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned	Total	Investor-Owned	Cooperatives	Government-Owned
	TOTAL			HYDRO				CONVENTIONAL STEAM			
1984	**76.5**	**4.2**	**19.3**	**13.3**	**3.5**	*	**9.8**	**73.1**	**61.6**	**4.2**	**7.3**
1983	76.4	3.6	20.0	14.4	3.9	*	10.5	72.8	61.7	3.6	7.5
1982	76.4	3.4	20.2	13.8	3.7	*	10.1	73.5	62.3	3.4	7.8
1981	77.8	3.2	19.0	11.4	2.7	*	8.7	76.6	65.0	3.2	8.4
1980	78.0	2.8	19.2	12.1	3.1	*	9.0	76.8	65.6	2.8	8.4
1979	78.1	2.4	19.5	12.4	3.3	*	9.1	76.0	65.5	2.4	8.1
1978	78.0	2.2	19.8	12.7	3.3	*	9.4	74.6	64.2	2.2	8.2
1977	79.3	2.1	18.6	10.4	2.6	*	7.8	77.6	67.0	2.1	8.5
1976	77.7	2.0	20.3	13.9	3.3	*	10.6	76.4	66.1	1.9	8.4
1975	77.5	1.9	20.6	15.6	4.2	*	11.4	75.1	65.2	1.8	8.1
1974	77.3	1.8	20.9	16.1	4.4	*	11.7	77.5	67.6	1.8	8.1
1973	78.1	1.9	20.0	14.6	4.2	*	10.4	80.6	69.7	1.9	9.0
1972	77.7	1.8	20.5	15.6	4.4	*	11.2	80.9	70.3	1.8	8.8
1971	77.4	1.7	20.9	16.5	4.7	*	11.8	80.7	70.4	1.7	8.6
1970	77.3	1.5	21.2	16.2	4.7	*	11.5	82.0	71.3	1.5	9.2
1969	76.4	1.2	22.4	17.3	5.2	*	12.1	81.3	70.4	1.2	9.7
1968	76.7	1.0	22.3	16.8	5.1	*	11.7	81.9	70.9	1.0	10.0
1967	76.5	1.0	22.5	18.2	5.9	*	12.3	80.7	70.1	0.9	9.7
1966	77.0	1.0	22.0	17.0	5.5	*	11.5	82.1	71.1	0.9	10.1
1965	76.7	0.8	22.5	18.4	6.4	*	12.0	80.8	70.0	0.7	10.1
1964	76.8	0.8	22.4	18.0	6.1	*	11.9	81.2	70.4	0.7	10.1
				NUCLEAR STEAM				INTERNAL COMBUSTION			
1984				**13.5**	**11.4**	*	**2.1**	**0.1**	*	*	**0.1**
1983				12.7	10.8	*	1.9	0.1	*	*	0.1
1982				12.6	10.4	*	2.2	0.1	*	*	0.1
1981				11.9	10.1	*	1.8	0.1	*	*	0.1
1980				11.0	9.3	*	1.7	0.1	*	*	0.1
1979				11.4	9.3	*	2.1	0.2	*	*	0.2
1978				12.5	10.5	*	2.0	0.2	*	*	0.2
1977				11.8	9.7	*	2.1	0.2	*	*	0.2
1976				9.4	8.2	0.1	1.1	0.3	0.1	*	0.2
1975				9.0	8.0	0.1	0.9	0.3	0.1	*	0.2
1974				6.1	5.3	*	0.8	0.3	*	*	0.3
1973				4.5	4.2	*	0.3	0.3	*	*	0.3
1972				3.1	2.9	*	0.2	0.4	0.1	*	0.3
1971				2.4	2.2	*	0.2	0.4	0.1	*	0.3
1970				1.4	1.2	*	0.2	0.4	0.1	*	0.3
1969				1.0	0.7	—	0.3	0.4	0.1	*	0.3
1968				1.0	0.7	*	0.3	0.3	*	*	0.3
1967				0.7	0.5	*	0.2	0.4	*	0.1	0.3
1966				0.5	0.4	*	0.1	0.4	*	0.1	0.3
1965				0.3	0.3	*	*	0.5	*	0.1	0.4
1964				0.3	0.3	*	*	0.5	*	0.1	0.4

**Less than one tenth of one percent.*

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759), as shown in Table 12.*

TABLE 15

GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR
1983 and 1984—KILOWATTHOURS IN MILLIONS

	Total Electric Utility Industry†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1984	1983	1984	1983	1984	1983	1984	1983	1984	1983
Total United States	**2,416,304**	**2,310,285**	**321,150**	**332,130**	**1,765,608**	**1,682,268**	**327,634**	**293,677**	**1,901**	**2,207**
Maine	9,227	9,737	2,014	1,963	2,086	2,043	5,123	5,730	4	1
New Hampshire	6,312	5,288	1,100	1,198	5,212	4,090	—	—	—	—
Vermont	4,468	3,916	879	936	251	109	3,336	2,870	2	1
Massachusetts	32,878	34,740	234	215	31,484	28,363	1,035	6,063	125	99
Rhode Island	603	584	2	3	589	574	—	—	12	8
Connecticut	27,244	23,900	371	372	12,580	11,939	14,292	11,588	1	1
New England	**80,731**	**78,165**	**4,600**	**4,686**	**52,202**	**47,118**	**23,786**	**26,251**	**143**	**110**
New York	109,140	104,948	26,586	26,162	61,326	62,358	21,187	16,376	41	52
New Jersey	26,342	27,312	(249)	(231)	20,981	21,214	5,610	6,328	—	—
Pennsylvania	130,905	123,604	1,446	1,169	107,887	107,708	21,564	14,718	8	8
Middle Atlantic	**266,386**	**255,863**	**27,783**	**27,101**	**190,195**	**191,280**	**48,360**	**37,422**	**48**	**61**
Ohio	108,249	105,873	164	135	103,765	100,817	4,312	4,904	9	17
Indiana	80,963	70,863	436	418	80,520	70,437	—	—	8	7
Illinois	101,011	99,160	124	117	65,866	70,920	34,976	28,021	46	101
Michigan	71,963	70,911	954	1,113	56,840	53,329	14,078	16,383	90	86
Wisconsin	41,854	39,348	2,080	2,298	29,026	27,749	10,745	9,299	2	3
East North Central	**404,040**	**386,153**	**3,758**	**4,082**	**336,016**	**323,252**	**64,112**	**58,607**	**154**	**213**
Minnesota	28,453	29,971	826	929	19,290	17,277	8,328	11,753	8	13
Iowa	22,762	22,253	917	918	19,141	19,013	2,700	2,309	4	13
Missouri	56,015	52,705	1,587	1,716	53,442	50,924	920	—	65	66
North Dakota	21,872	19,601	2,362	2,377	19,511	17,224	—	—	(*)	(*)
South Dakota	8,157	7,779	5,690	5,494	2,468	2,286	—	—	(1)	(1)
Nebraska	17,977	17,052	1,345	1,346	10,820	9,586	5,780	6,082	32	38
Kansas	26,175	23,773	7	6	25,852	23,408	—	—	316	359
West North Central	**181,411**	**173,135**	**12,734**	**12,785**	**150,524**	**139,719**	**17,729**	**20,143**	**424**	**488**
Delaware	9,369	9,473	—	—	9,364	9,472	—	—	5	1
Maryland	35,683	32,646	2,022	1,765	21,936	19,120	11,651	11,676	74	84
District of Columbia	312	221	—	—	312	221	—	—	—	—
Virginia	38,152	37,723	1,154	1,182	19,937	17,855	17,045	18,674	15	11
West Virginia	77,883	72,476	448	419	77,435	72,057	—	—	—	—
North Carolina	79,054	74,690	6,366	6,139	52,456	56,189	20,232	12,363	*	*
South Carolina	44,988	45,966	3,128	3,049	18,625	17,336	23,235	25,581	*	*
Georgia	73,510	66,580	4,083	4,065	63,955	54,740	5,472	7,774	*	*
Florida	94,370	91,522	213	220	69,836	76,159	24,078	14,805	244	338
South Atlantic	**453,321**	**431,297**	**17,415**	**16,840**	**333,855**	**323,150**	**101,713**	**90,872**	**338**	**435**
Kentucky	58,929	57,682	3,514	3,244	55,415	54,439	—	—	*	—
Tennessee	68,764	69,441	10,181	9,952	46,082	45,438	12,501	14,051	—	—
Alabama	77,114	76,172	10,774	11,141	42,129	39,886	24,211	25,145	—	—
Mississippi	15,384	13,359	—	—	15,219	13,359	165	—	—	—
East South Central	**220,191**	**216,654**	**24,469**	**24,338**	**158,846**	**153,121**	**36,877**	**39,195**	*****	**—**
Arkansas	30,052	30,073	2,723	3,315	16,521	19,111	10,808	7,646	*	*
Louisiana	39,328	37,042	—	—	39,322	37,025	—	—	6	16
Oklahoma	45,082	45,711	2,339	2,500	42,681	43,139	—	—	62	71
Texas	218,101	206,214	1,031	1,107	216,985	205,009	—	—	85	98
West South Central	**332,563**	**319,039**	**6,093**	**6,922**	**315,509**	**304,285**	**10,808**	**7,646**	**153**	**186**
Montana	18,896	15,097	11,112	11,561	7,783	3,535	—	—	*	*
Idaho	13,196	12,772	13,195	12,771	1	*	—	—	*	*
Wyoming	31,543	26,258	1,286	1,150	30,255	25,107	—	—	(1)	(1)
Colorado	27,441	25,225	2,168	1,870	25,213	22,605	55	748	4	1
New Mexico	26,891	27,170	94	89	26,794	26,998	—	—	3	83
Arizona	45,805	41,369	15,664	14,467	30,141	26,902	—	—	*	*
Utah	13,788	12,424	1,391	1,394	12,397	11,029	—	—	1	1
Nevada	20,458	17,373	5,613	4,094	14,846	13,280	—	—	(1)	(*)
Mountain	**198,019**	**177,686**	**50,523**	**47,396**	**147,431**	**129,456**	**55**	**748**	**7**	**84**
Washington	95,197	95,099	83,301	85,435	6,582	6,170	5,313	3,494	*	*
Oregon	52,061	49,180	46,607	45,049	719	446	4,736	3,685	(*)	(*)
California	121,669	117,734	43,159	56,885	64,339	55,216	14,144	5,613	17	17
Pacific	**268,926**	**262,012**	**173,068**	**187,369**	**71,640**	**61,833**	**24,193**	**12,792**	**17**	**17**
Alaska	4,012	3,748	693	593	3,044	2,844	—	—	275	310
Hawaii	6,702	6,531	15	17	6,346	6,210	—	—	341	304
Alaska & Hawaii	**10,714**	**10,279**	**708**	**611**	**9,390**	**9,054**	—	—	**616**	**614**

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983, generation by wind included in total—3 kWh in millions: 1984 total—6 kWh in millions. Beginning 1984, generation by solar included in total—5 kWh in millions.

( ) Denotes negative figure. **Less than five hundred thousand kilowatthours.*

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 16

GENERATION

INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

1983 and 1984--KILOWATTHOURS IN MILLIONS

	Total Investor-Owned Utilities†		Hydro		Conventional Steam		Nuclear Steam		Internal Combustion	
Division/State	1984	1983	1984	1983	1984	1983	1984	1983	1984	1983
Total United States	**1,848,916**	**1,764,080**	**83,639**	**88,663**	**1,487,840**	**1,426,449**	**276,849**	**248,379**	**579**	**588**
Maine	9,220	9,730	2,007	1,955	2,086	2,043	5,123	5,730	4	1
New Hampshire	6,312	5,288	1,100	1,198	5,212	4,090	—	—	—	—
Vermont	4,168	3,753	824	880	7	3	3,336	2,870	2	1
Massachusetts	31,535	33,957	190	173	30,223	27,648	1,035	6,063	87	73
Rhode Island	601	581	—	—	589	574	—	—	12	8
Connecticut	27,196	23,881	358	359	12,546	11,934	14,292	11,588	1	*
New England	**79,033**	**77,190**	**4,479**	**4,565**	**50,663**	**46,291**	**23,786**	**26,251**	**105**	**83**
New York	73,823	74,400	3,959	3,594	59,616	59,120	10,240	11,680	7	6
New Jersey	26,118	27,102	(252)	(233)	20,760	21,007	5,610	6,328	—	—
Pennsylvania	130,895	123,586	1,446	1,169	107,877	107,690	21,564	14,718	8	8
Middle Atlantic	**230,835**	**225,088**	**5,154**	**4,531**	**188,253**	**187,817**	**37,414**	**32,726**	**15**	**15**
Ohio	107,008	104,869	158	130	102,534	99,831	4,312	4,904	3	4
Indiana	74,212	66,416	435	418	73,776	65,996	—	—	1	1
Illinois	98,064	96,198	59	55	63,029	68,121	34,976	28,021	1	1
Michigan	67,836	66,872	725	880	53,021	49,603	14,078	16,383	12	6
Wisconsin	36,783	34,839	1,891	2,083	24,465	23,658	10,427	9,098	*	1
East North Central	**383,903**	**369,194**	**3,268**	**3,565**	**316,824**	**307,209**	**63,793**	**58,405**	**18**	**13**
Minnesota	27,825	29,114	817	913	18,680	16,449	8,328	11,753	*	(*)
Iowa	21,277	20,833	911	908	17,666	17,616	2,700	2,309	(*)	(1)
Missouri	38,642	36,819	628	729	37,094	36,088	920	—	(*)	2
North Dakota	2,800	2,811	—	—	2,800	2,812	—	—	(*)	(*)
South Dakota	2,467	2,280	1	1	2,467	2,280	—	—	(1)	(1)
Nebraska	—	—	—	—	—	—	—	—	—	—
Kansas	22,285	20,419	7	6	22,277	20,413	—	—	*	*
West North Central	**115,295**	**112,276**	**2,364**	**2,556**	**100,985**	**95,658**	**11,949**	**14,062**	**(2)**	**(*)**
Delaware	8,849	8,949	—	—	8,849	8,949	—	—	—	—
Maryland	35,611	32,567	2,022	1,765	21,936	19,120	11,651	11,676	2	5
District of Columbia	312	221	—	—	312	221	—	—	—	—
Virginia	37,456	37,050	490	541	19,913	17,830	17,045	18,674	8	5
West Virginia	77,883	72,476	448	419	77,435	72,057	—	—	—	—
North Carolina	77,593	73,366	4,938	4,843	52,423	56,161	20,232	12,363	—	—
South Carolina	35,904	37,481	1,562	1,593	11,107	10,307	23,235	25,581	—	—
Georgia	71,429	64,521	2,010	2,012	63,946	54,735	5,472	7,774	*	*
Florida	80,935	80,363	*	*	56,856	65,558	24,078	14,805	1	1
South Atlantic	**425,972**	**406,995**	**11,471**	**11,173**	**312,778**	**304,939**	**101,713**	**90,872**	**11**	**12**
Kentucky	27,873	27,030	442	410	27,432	26,620	—	—	—	—
Tennessee	888	836	888	836	—	—	—	—	—	—
Alabama	47,368	43,524	5,097	5,401	30,224	26,879	12,047	11,245	—	—
Mississippi	13,090	11,102	—	—	12,925	11,102	165	—	—	—
East South Central	**89,220**	**82,492**	**6,426**	**6,647**	**70,582**	**64,600**	**12,212**	**11,245**	—	—
Arkansas	27,540	26,946	236	202	16,497	19,098	10,808	7,646	*	*
Louisiana	32,397	30,576	—	—	32,397	30,575	—	—	*	1
Oklahoma	36,454	37,167	—	—	36,451	37,162	—	—	3	4
Texas	187,418	177,773	41	51	187,376	177,721	—	—	1	1
West South Central	**283,810**	**272,462**	**276**	**253**	**272,721**	**264,556**	**10,808**	**7,646**	**5**	**7**
Montana	13,316	9,120	5,533	5,584	7,783	3,535	—	—	*	*
Idaho	9,457	9,150	9,456	9,149	1	*	—	—	*	*
Wyoming	21,482	17,766	—	—	21,482	17,766	—	—	(1)	(1)
Colorado	12,707	13,419	82	157	12,570	12,514	55	748	*	*
New Mexico	26,318	26,799	—	—	26,315	26,716	—	—	3	83
Arizona	7,738	7,034	36	36	7,702	6,997	—	—	*	*
Utah	12,743	11,389	347	363	12,396	11,026	—	—	(*)	(*)
Nevada	14,892	13,340	47	60	14,846	13,280	—	—	(1)	(*)
Mountain	**118,654**	**108,015**	**15,501**	**15,349**	**103,096**	**91,836**	**55**	**748**	**2**	**82**
Washington	11,039	11,000	4,457	4,829	6,582	6,170	—	—	*	*
Oregon	15,289	13,748	9,836	9,617	719	446	4,736	3,685	(*)	(*)
California	89,048	78,982	20,346	25,509	58,292	50,716	10,384	2,738	17	17
Pacific	**115,376**	**103,730**	**34,638**	**39,956**	**65,593**	**57,333**	**15,120**	**6,423**	**17**	**17**
Alaska	115	107	47	50	—	—	—	—	68	57
Hawaii	6,702	6,531	15	17	6,346	6,210	—	—	341	304
Alaska & Hawaii	**6,817**	**6,638**	**62**	**67**	**6,346**	**6,210**	—	—	**408**	**361**

Note: Total may not equal sum of components due to independent rounding.

†Beginning 1983, generation by wind included in total—2 kWh in millions; 1984 total—4 kWh in millions. Beginning 1984, generation by solar included in total—5 kWh in millions.

( ) Denotes negative figure. **Less than five hundred thousand kilowatthours.*

Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report.*(EIA-759).*

TABLE 17

GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY AND INVESTOR-OWNED ELECTRIC UTILITIES

BY MONTH AND TYPE OF PRIME MOVER DRIVING THE GENERATOR

1981-1984—KILOWATTHOURS IN MILLIONS

	Total Electric Utility Industry*					Investor-Owned Electric Utilities*				
Year—Month	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion	Total	Hydro	Conventional Steam	Nuclear Steam	Internal Combustion
YEAR—1984										
January	216,632	29,737	157,394	29,313	187	165,365	8,341	132,447	24,520	57
February	189,564	27,900	133,088	28,436	140	143,645	7,596	112,405	23,603	41
March	200,107	30,435	142,190	27,345	136	152,991	8,423	121,129	23,395	45
April	181,084	29,970	126,769	24,231	114	136,883	8,807	107,688	20,352	35
May	192,217	31,814	134,410	25,867	126	144,934	8,905	114,419	21,570	38
June	209,648	28,773	155,383	25,299	192	158,914	7,308	130,490	21,058	58
July	221,245	27,495	165,254	28,284	212	168,420	6,456	138,650	23,258	55
August	229,296	25,137	174,417	29,493	247	177,577	5,811	146,891	24,811	63
September	195,198	20,911	144,985	29,146	155	151,564	4,824	121,751	24,946	41
October	190,936	20,887	145,149	24,774	126	149,581	5,166	122,180	22,190	44
November	190,380	22,259	143,404	24,575	141	146,962	5,508	120,193	21,206	55
December	199,996	25,834	143,166	30,872	124	152,080	6,494	119,595	25,941	49
Total	2,416,304	321,150	1,765,608	327,634	1,901	1,848,916	83,639	1,487,840	276,849	579
YEAR—1983										
January	195,579	29,235	141,121	25,073	151	148,379	7,951	118,973	21,414	41
February	172,479	27,950	122,194	22,198	137	130,361	7,925	104,443	17,947	45
March	182,488	30,302	128,136	23,890	160	137,712	9,010	109,219	19,418	65
April	170,372	29,989	117,884	22,335	165	127,950	9,186	101,309	17,380	75
May	174,392	31,194	121,013	22,051	134	131,484	9,068	104,283	18,096	37
June	191,048	30,692	136,030	24,152	174	144,860	7,825	116,212	20,783	40
July	220,165	28,113	166,162	25,602	288	169,170	6,443	140,439	22,239	49
August	229,957	25,828	177,601	26,201	327	177,653	5,394	149,400	22,810	50
September	195,604	21,712	148,681	25,007	203	152,513	5,095	124,855	22,515	48
October	182,931	20,747	136,249	25,797	138	142,471	5,123	115,601	21,707	40
November	182,949	24,678	133,121	25,010	140	140,971	6,780	112,951	21,198	41
December	212,319	31,691	154,076	26,361	191	160,556	8,863	128,764	22,871	58
Total	2,310,285	332,130	1,682,268	293,677	2,207	1,764,080	88,663	1,426,449	248,379	588
YEAR—1982										
January	209,403	26,896	156,585	25,678	245	161,670	7,028	132,967	21,620	54
February	180,299	26,690	133,220	20,188	201	137,702	7,501	113,535	16,621	47
March	187,687	29,885	134,849	22,755	199	141,710	8,099	115,303	18,253	54
April	172,580	27,928	122,700	21,785	167	130,240	8,104	104,611	17,484	40
May	177,147	27,971	127,366	21,639	172	133,958	7,858	108,371	17,689	40
June	186,128	27,953	133,956	24,026	194	140,529	7,201	113,437	19,852	39
July	210,584	27,294	157,548	25,467	274	160,154	6,188	133,100	20,819	48
August	205,656	23,894	156,517	24,986	258	157,181	5,234	131,339	20,566	42
September	180,662	19,896	135,192	25,391	184	139,937	4,933	114,180	20,793	31
October	172,966	19,750	129,818	23,248	150	134,491	5,013	110,455	18,991	32
November	173,377	23,297	126,696	23,235	150	132,487	6,141	106,904	19,407	35
December	184,722	27,760	132,437	24,376	149	141,517	8,228	112,133	21,118	38
Total	2,241,211	309,213	1,646,883	282,773	2,343	1,711,576	81,527	1,396,336	233,213	501
YEAR—1981										
January	206,467	22,338	160,077	23,779	272	160,639	4,706	136,541	19,321	71
February	179,613	21,099	136,711	21,595	208	140,656	5,576	116,577	18,456	47
March	185,553	20,572	142,779	22,004	197	145,825	5,509	122,102	18,165	48
April	172,545	20,723	130,977	20,646	199	134,957	5,999	111,991	16,922	45
May	177,806	24,081	133,795	19,723	207	135,723	5,697	113,027	16,953	45
June	202,702	26,370	154,906	21,166	261	155,322	5,877	131,226	18,170	49
July	220,373	25,133	171,816	23,080	345	168,830	4,640	145,246	18,885	59
August	210,403	21,615	161,559	26,946	283	163,033	3,887	135,474	23,623	49
September	186,838	17,822	144,387	24,398	232	147,532	4,053	122,185	21,253	41
October	181,352	18,088	142,507	20,556	200	144,267	4,581	121,541	18,109	37
November	175,570	18,963	133,643	22,783	180	137,858	5,026	113,449	19,347	36
December	195,590	23,879	145,503	25,997	212	150,859	6,130	122,703	21,984	42
Total	2,294,812	260,684	1,758,660	272,674	2,795	1,785,500	61,680	1,492,062	231,190	568

Note: Total may not equal sum of components due to independent rounding.

**Beginning 1983, generation by wind included in total; Total Electric Utility Industry (1983)—3 kWh in millions; Investor-Owned Electric Utilities—2 kWh in millions; Total Electric Utility Industry (1984)—6kWh in millions; Investor-Owned Electric Utilities—4 kWh in millions. Beginning 1984, generation by solar included in total; Total Electric Utility Industry—5 kWh in millions; Investor-Owned Electric Utilities—5 kWh in millions.*

Source: U.S. Department of Energy, Energy Information Administration. Monthly Power Plant Report *(EIA-759).*

TABLE 18

INDEX OF WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)
SEASONALLY ADJUSTED—1967 AVERAGE = 100
1974-1984

Week Number	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
1	201	169	176	180	179	199	184	181	162	154	154
2	192	174	179	189	178	192	184	182	174	152	151
3	204	176	205	197	170	189	184	191	171	162	149
4	195	188	193	185	176	186	182	193	175	158	145
5	190	182	190	182	194	201	193	187	169	155	146
6	190	177	183	191	190	198	185	183	170	158	153
7	177	186	192	192	188	196	180	176	163	159	151
8	187	183	182	176	185	194	183	177	158	154	150
9	206	184	193	187	200	196	187	174	162	156	155
10	207	185	196	193	204	191	186	177	164	164	148
11	205	186	194	192	196	194	176	170	167	162	151
12	202	189	192	198	195	189	170	171	170	157	154
13	195	201	195	195	196	193	170	176	164	156	157
14	203	195	195	189	191	194	173	171	165	159	154
15	203	196	201	193	188	193	174	172	163	159	152
16	202	200	193	195	195	191	180	174	164	157	151
17	206	191	192	195	188	188	177	170	166	155	154
18	206	191	187	198	187	186	177	175	167	157	156
19	208	191	187	193	187	196	180	174	165	156	156
20	205	190	189	192	185	188	181	183	165	153	161
21	208	190	192	188	182	181	182	179	159	161	160
22	199	187	187	192	185	181	187	179	154	158	158
23	214	188	191	198	193	191	183	177	162	154	158
24	220	198	187	204	180	183	178	176	164	148	154
25	215	193	182	205	179	184	179	174	169	159	157
26	209	194	179	200	192	177	188	177	164	159	146
27	205	190	179	194	192	173	175	181	153	158	158
28	212	200	190	202	197	182	179	184	171	151	161
29	192	201	182	195	202	184	187	187	165	148	163
30	194	199	190	194	194	189	185	170	166	159	158
31	192	202	187	185	194	193	178	175	171	162	159
32	206	199	189	192	204	198	183	182	160	157	150
33	214	207	186	198	201	173	193	167	162	159	155
34	206	215	190	186	196	184	185	163	158	156	159
35	207	205	184	188	194	185	180	173	170	159	158
36	196	211	196	197	201	192	185	172	162	158	147
37	213	204	177	187	200	188	193	173	167	156	158
38	199	195	196	193	198	181	197	177	168	152	156
39	206	189	182	189	203	186	183	180	166	151	150
40	197	197	184	195	192	191	186	175	168	152	154
41	202	194	192	194	186	190	184	176	171	158	155
42	206	198	184	194	188	192	185	176	169	160	157
43	207	197	186	194	189	193	185	173	176	158	158
44	208	197	185	193	194	191	185	173	176	159	154
45	205	199	186	188	187	190	182	174	177	156	155
46	206	201	184	188	188	191	186	177	179	161	156
47	204	191	191	192	201	177	194	170	178	161	155
48	208	205	179	187	190	194	181	186	176	166	157
49	212	199	174	184	184	188	187	185	186	163	159
50	199	195	179	189	185	181	192	177	182	164	156
51	191	212	189	196	192	189	184	172	177	169	156
52	190	229	186	198	199	174	184	181	187	171	149
Year	**202**	**195**	**184**	**192**	**191**	**189**	**183**	**177**	**168**	**157**	**154**

Note: Seasonal factors are always based on 52 weeks ending on Saturday. Therefore one week is eliminated in 1977 and 1983, since those years had 53 Saturdays.
The above values are based on EEI Weekly Electric Output Index—(Revised Methodology) dated January, 1958.

TABLE 19

WEEKLY ELECTRIC OUTPUT TOTAL ELECTRIC UTILITY INDUSTRY

(EXCLUDING ALASKA AND HAWAII)
1982-1984
KILOWATTHOURS IN MILLIONS

Week Ended	1984	Week Ended	1983	Percent Change 84/83	Week Ended	1982	Percent Change 83/82
		Jan. 1	39,828		Jan. 2	41,799	(4.7)
Jan. 7	47,393	8	44,706	6.0	9	46,017	(4.7)
14	49,426	15	44,732	10.5	16	51,909	(13.8)
21	52,607	22	47,478	10.8	23	48,998	(3.1)
28	49,589	29	45,394	9.2	30	47,579	(4.6)
Feb. 4	47,834	Feb 5	44,713	7.0	Feb 6	46,399	(3.6)
11	48,189	12	46,055	4.6	13	47,700	(3.4)
18	44,100	19	43,390	1.6	20	43,544	(0.4)
25	44,447	26	41,746	6.5	27	43,787	(4.7)
Mar. 3	47,146	Mar. 5	41,343	14.0	Mar. 6	43,905	(5.8)
10	46,873	12	41,356	13.3	13	43,177	(4.2)
17	45,937	19	41,248	11.4	20	41,853	(1.4)
24	44,464	26	42,734	4.0	27	41,510	2.9
31	44,259						
		Apr. 2	40,863	8.3	Apr. 3	41,234	(0.9)
Apr. 7	43,237	9	40,125	7.8	10	42,072	(4.6)
14	43,057	16	40,841	5.4	17	40,079	1.9
21	42,443	23	41,486	2.3	17	40,079	1.9
28	42,819	30	39,822	7.5			
					May 1	39,205	1.6
May 5	43,008	May 7	40,028	7.4	8	39,584	1.1
12	43,937	14	40,391	8.8	15	40,409	0.0
19	43,798	21	40,727	7.5	22	42,088	(3.2)
26	45,243	28	41,569	8.8	29	42,516	(2.2)
June 2	43,158	June 4	40,367	6.9	June 5	41,509	(2.8)
9	48,424	11	42,793	13.2	12	43,635	(1.9)
16	51,288	18	46,123	11.2	19	43,725	5.5
23	51,465	25	47,445	8.5	26	43,593	8.8
30	50,341						
		July 2	48,131	4.6	July 3	44,657	7.8
July 7	48,325	9	45,629	5.9	10	44,971	1.5
14	52,604	16	51,046	3.1	17	48,644	4.9
21	51,226	23	53,607	(4.4)	24	49,824	7.6
28	50,669	30	52,214	(3.0)	31	49,073	6.4
Aug. 4	50,451	Aug. 6	52,778	(4.4)	Aug. 7	49,136	7.4
11	54,095	13	51,700	4.6	14	46,285	11.7
18	53,078	20	51,398	3.3	21	46,786	9.9
25	50,326	27	52,730	(4.6)	28	46,082	14.4
Sept. 1	51,563	Sept. 3	51,296	0.5	Sept. 4	45,180	13.5
8	46,172	10	49,438	(6.6)	11	41,699	18.6
15	48,732	17	46,639	4.5	18	44,427	5.0
22	45,252	24	44,095	2.6	25	40,274	9.5
29	45,369						
		Oct. 1	41,625	9.0	Oct. 2	39,797	4.6
Oct. 6	42,449	8	42,381	0.2	9	41,266	2.7
13	43,223	15	41,471	4.2	16	39,572	4.8
20	43,923	22	42,251	4.0	23	39,974	5.7
27	44,188	29	42,046	5.1	30	40,067	4.9
Nov. 3	44,861	Nov. 5	42,577	5.4	Nov. 6	40,999	3.8
10	44,739	12	43,065	3.9	13	41,300	4.3
17	45,796	19	44,563	2.8	20	42,659	4.5
24	45,273	26	42,099	7.5	27	40,145	4.9
Dec. 1	45,991	Dec. 3	45,354	1.4	Dec. 4	41,284	9.9
8	49,541	10	46,889	5.7	11	43,174	8.6
15	47,458	17	46,773	1.5	18	45,709	2.3
22	46,345	24	51,337	(9.7)	25	41,732	23.0
29	42,591	31	51,275	(16.9)			

Note: "Weekly Electric Output" is the total of that reported by the individual utilities which consists of the net electric energy generated by each respondent utility plus energy received from others less energy delivered for resale.

These figures are based on the reports of investor-owned utilities, large municipal systems, and state and Federal agencies comprising 93 percent of the total. They are then expanded to an estimated full coverage of the contiguous United States. As these data are for 52 weeks rather than for the calendar year and include net imports and purchases from industrial plants they do not add to totals for the electric utility industry shown in other tables.

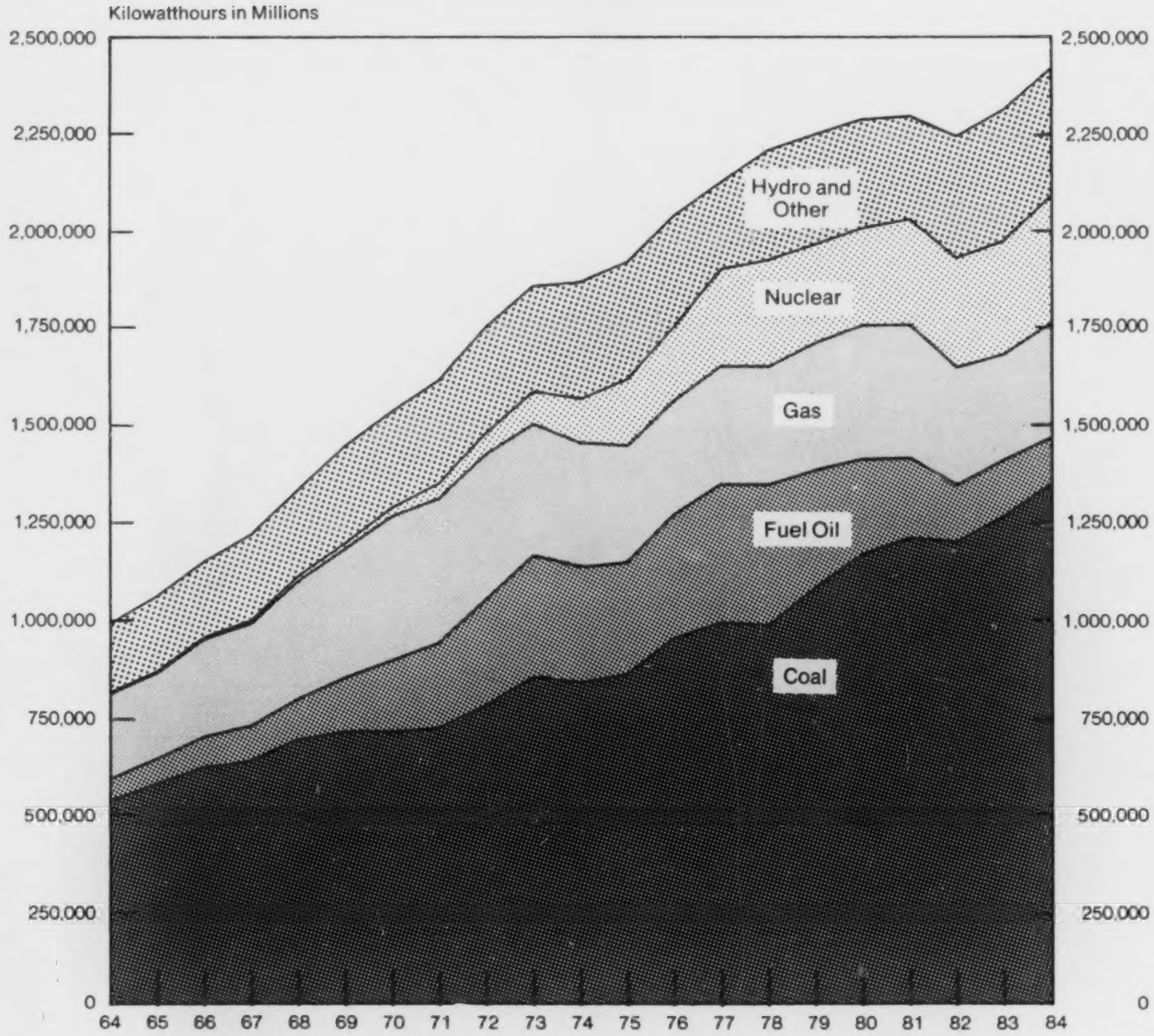
FUEL

SECTION IV

CHART IV-A

ELECTRIC POWER GENERATION

TOTAL ELECTRIC UTILITY INDUSTRY
BY SOURCE



Based on Table 21, page 30.
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759)*

TABLE 21

SOURCES OF ENERGY FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY*

BY YEAR AND ENERGY SOURCE
KILOWATTHOURS IN MILLIONS

Year	Total Generation	Coal	Fuel Oil	Gas	Nuclear	Hydro	Other**
1984	**2,416,304**	**1,341,681**	**119,808**	**297,394**	**327,634**	**321,150**	**8,638**
1983	2,310,285	1,259,424	144,499	274,098	293,677	332,130	6,456
1982	2,241,211	1,192,379	146,423	305,260	282,773	309,213	5,164
1981	2,294,812	1,203,554	206,070	345,777	272,674	260,684	6,054
1980	2,286,414	1,161,969	245,547	346,233	251,121	276,039	5,506
1979	2,247,359	1,075,595	302,948	329,486	255,155	279,790	4,387
1978	2,206,313	976,618	364,153	305,392	276,403	280,432	3,315
1977	2,124,166	985,465	357,866	305,444	250,882	220,446	4,063
1976	2,037,674	944,562	319,779	294,610	191,107	283,734	3,883
1975	1,917,619	852,972	288,873	299,766	172,506	300,065	3,437
1974	1,866,436	829,842	299,306	319,931	113,727	300,928	2,703
1973	1,856,216	845,704	312,805	340,449	83,334	271,634	2,290
1972	1,749,637	772,871	272,530	375,735	54,092	272,626	1,783
1971	1,612,589	714,676	218,608	374,026	38,106	266,314	859
1970	1,531,609	706,102	182,488	372,884	21,797	247,456	882
1969	1,442,182	706,001	137,847	333,279	13,928	250,193	934
1968	1,329,443	684,905	104,276	304,433	12,528	222,491	810
1967	1,214,365	630,483	89,271	264,806	7,655	221,518	632
1966	1,144,350	613,475	78,926	251,151	5,520	194,756	522
1965	1,055,252	570,926	64,801	221,559	3,657	193,851	458
1964	983,990	526,230	56,954	220,038	3,343	177,073	352

Note: Total may not equal sum of components due to independent rounding.
**Generation by petroleum coke included in fuel oil from 1964 to 1980, and 1983 to 1984. In 1981 and 1982 petroleum coke included in coal.*
***Includes generation by geothermal, wood, waste, wind and solar.*
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 22

SOURCES OF ENERGY FOR ELECTRIC GENERATION IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND ENERGY SOURCE

Year	Coal	Fuel Oil	Gas	Nuclear	Hydro	Other
1984	**55.5%**	**5.0%**	**12.3%**	**13.6%**	**13.3%**	**0.4%**
1983	54.5	6.3	11.9	12.7	14.4	0.3
1982	53.2	6.5	13.6	12.6	13.8	0.2
1981	52.4	9.0	15.1	11.9	11.4	0.3
1980	50.8	10.7	15.1	11.0	12.1	0.2
1979	47.9	13.5	14.7	11.4	12.4	0.2
1978	44.3	16.5	13.8	12.5	12.7	0.2
1977	46.4	16.8	14.4	11.8	10.4	0.2
1976	46.4	15.7	14.5	9.4	13.9	0.2
1975	44.5	15.1	15.6	9.0	15.6	0.2
1974	44.5	16.0	17.1	6.1	16.1	0.1
1973	45.6	16.9	18.3	4.5	14.6	0.1
1972	44.2	15.6	21.5	3.1	15.6	0.1
1971	44.3	13.6	23.2	2.4	16.5	0.1
1970	46.1	11.9	24.3	1.4	16.2	0.1
1969	49.0	9.6	23.1	1.0	17.3	0.1
1968	51.5	7.8	22.9	0.9	16.7	0.1
1967	51.9	7.4	21.8	0.6	18.2	0.1
1966	53.6	6.9	21.9	0.5	17.0	*
1965	54.1	6.1	21.0	0.3	18.4	*
1964	53.5	5.8	22.4	0.3	18.0	*

Note: Total may not equal sum of components due to independent rounding.
**Less than one tenth of one percent.*
Based on Table 21.

TABLE 23

SOURCES OF ENERGY FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND ENERGY SOURCE
YEAR 1984—KILOWATTHOURS IN MILLIONS

Division/State	Total Generation	Coal†	Fuel Oil††	Gas	Nuclear Fuel	Hydro	Other**
Total United States	**2,416,304**	**1,341,681**	**119,808**	**297,394**	**327,634**	**321,150**	**8,638**
Maine	9,227	—	2,090	—	5,123	2,014	—
New Hampshire	6,312	3,281	1,926	5	—	1,100	—
Vermont	4,468	50	11	15	3,336	879	178
Massachusetts	32,878	11,260	17,271	3,078	1,035	234	—
Rhode Island	603	—	319	282	—	2	—
Connecticut	27,244	32	12,353	196	14,292	371	—
New England	**80,731**	**14,623**	**33,970**	**3,575**	**23,786**	**4,600**	**178**
New York	109,140	17,070	28,891	15,395	21,187	26,586	11
New Jersey	26,342	7,366	5,130	8,485	5,610	(249)	—
Pennsylvania	130,905	98,132	9,544	219	21,564	1,446	—
Middle Atlantic	**266,386**	**122,569**	**43,564**	**24,099**	**48,360**	**27,783**	**11**
Ohio	108,249	103,263	261	46	4,312	164	203
Indiana	80,963	80,246	162	120	—	436	—
Illinois	101,011	63,233	2,196	482	34,976	124	—
Michigan	71,963	55,629	598	704	14,078	954	—
Wisconsin	41,854	28,743	92	114	10,745	2,080	79
East North Central	**404,040**	**331,114**	**3,308**	**1,466**	**64,112**	**3,758**	**282**
Minnesota	28,453	19,139	20	139	8,328	826	*
Iowa	22,762	18,907	47	145	2,700	917	45
Missouri	56,015	53,241	98	169	920	1,587	—
North Dakota	21,872	19,439	71	*	—	2,362	—
South Dakota	8,157	2,462	4	1	—	5,690	—
Nebraska	17,977	10,717	19	117	5,780	1,345	—
Kansas	26,175	23,339	119	2,710	—	7	*
West North Central	**181,411**	**147,243**	**378**	**3,282**	**17,729**	**12,734**	**46**
Delaware	9,369	6,399	2,255	715	—	—	—
Maryland	35,683	18,775	3,090	103	11,651	2,022	41
District of Columbia	312	—	312	—	—	—	—
Virginia	38,152	18,069	1,580	303	17,045	1,154	—
West Virginia	77,883	77,166	254	15	—	448	—
North Carolina	79,054	52,276	178	2	20,232	6,366	—
South Carolina	44,988	18,522	82	21	23,235	3,128	—
Georgia	73,510	63,821	88	46	5,472	4,083	—
Florida	94,370	34,188	19,520	16,371	24,078	213	*
South Atlantic	**453,321**	**289,217**	**27,359**	**17,575**	**101,713**	**17,415**	**42**
Kentucky	58,929	55,072	172	172	—	3,514	—
Tennessee	68,764	45,963	119	*	12,501	10,181	—
Alabama	77,114	42,057	37	35	24,211	10,774	—
Mississippi	15,384	9,485	58	5,676	165	—	—
East South Central	**220,191**	**152,577**	**386**	**5,883**	**36,877**	**24,469**	**—**
Arkansas	30,052	14,350	10	2,161	10,808	2,723	—
Louisiana	39,328	9,828	139	29,361	—	—	—
Oklahoma	45,082	20,383	30	22,330	—	2,339	—
Texas	218,101	91,901	454	124,604	—	1,031	110
West South Central	**332,563**	**136,463**	**633**	**178,456**	**10,808**	**6,093**	**110**
Montana	18,896	7,650	36	40	—	11,112	57
Idaho	13,196	—	*	*	—	13,195	—
Wyoming	31,543	30,187	60	8	—	1,286	3
Colorado	27,441	24,869	30	316	55	2,168	2
New Mexico	26,891	23,898	60	2,839	—	94	—
Arizona	45,805	27,479	409	2,253	—	15,664	—
Utah	13,788	12,321	30	8	—	1,391	38
Nevada	20,458	14,003	35	808	—	5,613	—
Mountain	**198,019**	**140,408**	**660**	**6,272**	**55**	**50,523**	**100**
Washington	95,197	6,441	8	2	5,313	83,301	131
Oregon	52,061	721	(3)	—	4,736	46,607	—
California	121,669	—	2,410	54,265	14,144	43,159	7,691
Pacific	**268,926**	**7,162**	**2,415**	**54,267**	**24,193**	**173,068**	**7,821**
Alaska	4,012	305	496	2,518	—	693	*
Hawaii	6,702	—	6,638	—	—	15	48
Alaska & Hawaii	**10,714**	**305**	**7,135**	**2,518**	**—**	**708**	**48**

Note: Total may not equal sum of components due to independent rounding.
† Excludes petroleum coke.
†† Includes petroleum coke.
** Less than five hundred thousand kilowatthours.*
*** Includes generation by geothermal, wood, waste, wind and solar.*
( ) Denotes negative figure.
Source: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

TABLE 24

SOURCES OF ENERGY FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND ENERGY SOURCE
YEAR 1984—PERCENT

Division/State	Total Generation	Coal†	Fuel Oil††	Gas	Nuclear Fuel	Hydro	Other**
Total United States	**100.0%**	**55.5%**	**5.0%**	**12.3%**	**13.6%**	**13.3%**	**0.4%**
Maine	100.0	—	22.7	—	55.5	21.8	—
New Hampshire	100.0	52.0	30.5	0.1	—	17.4	—
Vermont	100.0	1.1	0.2	0.3	74.7	19.7	4.0
Massachusetts	100.0	34.2	52.5	9.4	3.1	0.7	—
Rhode Island	100.0	—	52.9	46.8	—	0.3	—
Connecticut	100.0	0.1	45.3	0.7	52.5	1.4	—
New England	**100.0**	**18.1**	**42.1**	**4.4**	**29.5**	**5.7**	**0.2**
New York	100.0	15.6	26.5	14.1	19.4	24.4	*
New Jersey	100.0	28.0	19.5	32.2	21.3	(0.9)	—
Pennsylvania	100.0	75.0	7.3	0.2	16.5	1.1	—
Middle Atlantic	**100.0**	**46.0**	**16.4**	**9.0**	**18.2**	**10.4**	*
Ohio	100.0	95.4	0.2	*	4.0	0.2	0.2
Indiana	100.0	99.1	0.2	0.1	—	0.5	—
Illinois	100.0	62.6	2.2	0.5	34.6	0.1	—
Michigan	100.0	77.3	0.8	1.0	19.6	1.3	—
Wisconsin	100.0	68.7	0.2	0.3	25.7	5.0	0.2
East North Central	**100.0**	**82.0**	**0.8**	**0.4**	**15.9**	**0.9**	**0.1**
Minnesota	100.0	67.3	0.1	0.5	29.3	2.9	*
Iowa	100.0	83.1	0.2	0.6	11.9	4.0	0.2
Missouri	100.0	95.0	0.2	0.3	1.6	2.8	—
North Dakota	100.0	88.9	0.3	*	—	10.8	—
South Dakota	100.0	30.2	*	*	—	69.8	—
Nebraska	100.0	59.6	0.1	0.7	32.2	7.5	—
Kansas	100.0	89.2	0.5	10.4	—	*	*
West North Central	**100.0**	**81.2**	**0.2**	**1.8**	**9.8**	**7.0**	*
Delaware	100.0	68.3	24.1	7.6	—	—	—
Maryland	100.0	52.6	8.7	0.3	32.7	5.7	0.1
District of Columbia	100.0	—	100.0	—	—	—	—
Virginia	100.0	47.4	4.1	0.8	44.7	3.0	—
West Virginia	100.0	99.1	0.3	*	—	0.6	—
North Carolina	100.0	66.1	0.2	*	25.6	8.1	—
South Carolina	100.0	41.2	0.2	*	51.6	7.0	—
Georgia	100.0	86.8	0.1	0.1	7.4	5.6	—
Florida	100.0	36.2	20.7	17.3	25.5	0.2	*
South Atlantic	**100.0**	**63.8**	**6.0**	**3.9**	**22.4**	**3.8**	*
Kentucky	100.0	93.5	0.3	0.3	—	6.0	—
Tennessee	100.0	66.8	0.2	*	18.2	14.8	—
Alabama	100.0	54.5	*	*	31.4	14.0	—
Mississippi	100.0	61.7	0.4	36.9	1.1	—	—
East South Central	**100.0**	**69.3**	**0.2**	**2.7**	**16.7**	**11.1**	**—**
Arkansas	100.0	47.8	*	7.2	36.0	9.1	—
Louisiana	100.0	25.0	0.4	74.7	—	—	—
Oklahoma	100.0	45.2	0.1	49.5	—	5.2	—
Texas	100.0	42.1	0.2	57.1	—	0.5	0.1
West South Central	**100.0**	**41.0**	**0.2**	**53.7**	**3.2**	**1.8**	*
Montana	100.0	40.5	0.2	0.2	—	58.8	0.3
Idaho	100.0	—	*	*	—	100.0	—
Wyoming	100.0	95.7	0.2	*	—	4.1	*
Colorado	100.0	90.6	0.1	1.2	0.2	7.9	*
New Mexico	100.0	88.9	0.2	10.6	—	0.3	—
Arizona	100.0	60.0	0.9	4.9	—	34.2	—
Utah	100.0	89.4	0.2	0.1	—	10.1	0.3
Nevada	100.0	68.4	0.2	3.9	—	27.4	—
Mountain	**100.0**	**70.9**	**0.3**	**3.2**	*	**25.5**	**0.1**
Washington	100.0	6.8	*	*	5.6	87.5	0.1
Oregon	100.0	1.4	(*)	—	9.1	89.5	—
California	100.0	—	2.0	44.6	11.6	35.5	6.3
Pacific	**100.0**	**2.7**	**0.9**	**20.2**	**9.0**	**64.4**	**2.9**
Alaska	100.0	7.6	12.4	62.8	—	17.3	*
Hawaii	100.0	—	99.0	—	—	0.2	0.7
Alaska & Hawaii	**100.0**	**2.8**	**66.6**	**23.5**	**—**	**6.6**	**0.4**

Note: Total may not equal sum of components due to independent rounding.
†Excludes petroleum coke.
††Includes petroleum coke.
**Less than one tenth of one percent.*
***Includes generation by geothermal, wood, waste, wind and solar.*
( ) Denotes negative figure.
Source: U.S. Department of Energy, Energy Information Administration, Monthly Power Plant Report *(EIA-759).*

TABLE 25

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND KIND OF FUEL

Year	Coal* (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents**† (Thousand Short Tons)	Net Generation by Fuels** (kWh in Millions)	Heat Rate† (Btu per kWh)	Lbs. of Coal per kWh†
1984	**664,399**	**204,479**	**3,111,342**	**909,156**	**1,758,882**	**10,300**	**0.990**
1983	625,211	245,497	2,910,767	867,621	1,678,021	10,547r	0.993
1982	593,666	249,771	3,225,518	858,869‡	1,644,062	10,517	0.996
1981	596,936	351,111	3,640,154	922,133‡	1,755,401	10,506	0.992
1980	569,453	420,214	3,681,595	916,952‡	1,753,749	10,489	0.980
1979	527,317	523,256	3,490,517	837,371	1,708,029	10,470	0.981
1978	481,624	635,829	3,188,370	811,814	1,646,163	10,495	0.986
1977	477,215	623,656	3,190,571	798,425	1,648,775	10,449	0.969
1976	448,431	555,583	3,080,627	740,112	1,558,951	10,369	0.950
1975	406,032	506,081	3,157,591	686,236	1,441,611	10,383	0.952
1974	392,344	536,140	3,429,072	685,115	1,449,079	10,481	0.946
1973	388,190	559,842	3,640,756	688,043	1,498,958	10,429	0.918
1972	352,391	493,663	3,976,762	647,968	1,421,136	10,479	0.912
1971	327,878	396,438	3,975,972	599,766	1,307,310	10,536	0.918
1970	320,818	335,504	3,931,996	573,152	1,261,474	10,508	0.909
1969	310,641	251,027	3,487.642	517,937	1,177,127	10,457	0.880
1968	297,779	188,642	3,147,909	475,475	1,093,614	10,371	0.870
1967	274,185	161,278	2,746,352	428,165	984,560	10,396	0.870
1966	266,477	140,949	2,609,949	409,854	943,552	10,399	0.869
1965	244,788	115,203	2,321,101	367,567	857,286	10,384	0.858
1964	225,425	101,141	2,322,896	344,083	803,222	10,407	0.857

**Beginning in 1982, petroleum coke excluded from Coal.*

***Excludes geothermal, wood, waste, and nuclear fuels.*

†EEI estimate.

‡Beginning in 1980, Coal Equivalents are calculated on the basis of Btu instead of generation data.

Sources: U.S. Department of Energy. Energy Information Administration. Monthly Power Plant Report. *(EIA-759).*

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TABLE 26

CONSUMPTION OF FOSSIL FUELS FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND KIND OF FUEL—YEAR 1984

Division/State	Coal (Thousand Short Tons)	Fuel Oil (Thousand 42-Gallon Barrels)	Gas (Million Cubic Feet)	Total Fossil Fuel in Coal Equivalents*† (Thousand Short Tons)	Net Generation by Fuels* (kWh in Millions)	Heat Rate† (Btu per kWh)	Lbs. of Coal per kWh†
Total United States	**664,399**	**204,479**	**3,111,342**	**909,156**	**1,758,882**	**10,300**	**0.990**
Maine	—	3,599	—	859	2,090	10,821	—
New Hampshire	1,198	3,410	67	2,017	5,212	10,372	0.730
Vermont	37	31	272	79	76	15,582	1.480
Massachusetts	4,080	27,789	32,132	11,986	31,609	9,863	0.725
Rhode Island	—	663	3,661	302	601	13,262	—
Connecticut	13	20,583	2,228	5,013	12,581	10,431	0.813
New England	**5,328**	**56,075**	**38,360**	**20,255**	**52,168**	**10,155**	**0.729**
New York	7,333	49,165	169,620	26,772	61,356	10,731	0.859
New Jersey	2,853	9,320	95,323	8,898	20,981	11,017	0.775
Pennsylvania	40,836	16,040	2,615	45,164	107,895	9,910	0.832
Middle Atlantic	**51,022**	**74,525**	**267,559**	**80,833**	**190,232**	**10,297**	**0.833**
Ohio	45,025	589	694	45,248	103,570	8,914	0.872
Indiana	38,398	306	1,451	38,551	80,528	10,033	0.957
Illinois	32,054	4,902	5,963	33,836	65,912	10,688	1.014
Michigan	24,491	1,325	9,711	25,025	56,930	10,197	0.881
Wisconsin	15,804	181	1,942	15,957	28,949	10,857	1.100
East North Central	**155,772**	**7,304**	**19,762**	**158,618**	**335,888**	**9,905**	**0.941**
Minnesota	12,015	57	1,978	12,148	19,298	10,972	1.256
Iowa	11,966	117	3,069	12,170	19,099	11,337	1.266
Missouri	25,763	239	2,501	25,948	53,507	10,245	0.968
North Dakota	16,953	163	10	17,026	19,511	10,221	1.744
South Dakota	2,487	27	52	2,502	2,467	12,132	2.020
Nebraska	6,569	41	1,495	6,663	10,852	10,713	1.226
Kansas	15,252	253	32,234	17,089	26,168	11,500	1.307
West North Central	**91,005**	**897**	**41,339**	**93,547**	**150,903**	**10,746**	**1.236**
Delaware	2,618	3,288	7,060	3,680	9,369	10,582	0.818
Maryland	7,501	5,774	1,294	8,967	21,968	10,317	0.799
District of Columbia	—	737	—	180	312	10,432	—
Virginia	7,323	2,626	3,152	8,100	19,952	10,223	0.811
West Virginia	31,058	383	116	31,155	77,435	9,731	0.805
North Carolina	20,306	336	121	20,388	52,456	9,689	0.777
South Carolina	7,428	143	435	7,480	18,625	10,050	0.802
Georgia	26,455	201	608	26,526	63,955	10,188	0.829
Florida	14,579	31,961	174,740	30,560	70,079	9,928	0.853
South Atlantic	**117,267**	**45,449**	**187,526**	**137,036**	**334,151**	**9,967**	**0.811**
Kentucky	25,014	302	1,767	25,168	55,415	10,195	0.908
Tennessee	19,106	207	—	19,158	46,082	9,921	0.831
Alabama	17,786	72	356	17,819	42,129	10,111	0.846
Mississippi	4,076	166	62,682	6,824	15,219	10,877	0.859
East South Central	**65,984**	**746**	**64,805**	**68,969**	**158,846**	**10,160**	**0.865**
Arkansas	9,036	18	24,962	10,570	16,521	10,831	1.259
Louisiana	6,463	272	300,857	25,828	39,328	10,792	1.315
Oklahoma	12,541	73	224,987	26,215	42,743	10,604	1.231
Texas	66,957	955	1,265,385	153,089	216,959	10,428	1.457
West South Central	**94,997**	**1,318**	**1,816,190**	**215,702**	**315,552**	**10,519**	**1.392**
Montana	5,113	78	360	5,160	7,726	11,763	1.337
Idaho	—	1	5	1	1	14,094	—
Wyoming	18,805	121	86	18,851	30,255	10,780	1.246
Colorado	13,758	89	4,899	14,020	25,215	10,774	1.106
New Mexico	13,896	124	30,810	16,029	26,798	10,738	1.163
Arizona	13,601	710	25,366	15,088	30,141	10,605	0.990
Utah	5,712	58	271	5,739	12,359	10,628	0.927
Nevada	6,811	62	9,389	7,269	14,845	12,305	0.973
Mountain	**77,697**	**1,244**	**71,186**	**82,157**	**147,340**	**10,932**	**1.107**
Washington	4,506	17	32	4,514	6,451	10,916	1.399
Oregon	506	10	*	510	718	10,880	1.404
California	—	4,738	573,001	39,925	56,675	11,017	—
Pacific	**5,012**	**4,766**	**573,033**	**44,949**	**63,844**	**11,005**	**1.400**
Alaska	314	1,008	31,582	2,653	3,319	12,322	2.059
Hawaii	—	11,147	—	4,437	6,638	10,517	—
Alaska & Hawaii	**314**	**12,155**	**31,582**	**7,090**	**9,958**	**10,799**	**2.059**

Note: Total may not equal sum of components due to independent rounding.

**Excludes geothermal, wood, waste, and nuclear fuels.*

†EEI estimate.

Source: U.S. Department of Energy. Energy Information Administration, Monthly Power Plant Report. *(EIA-759).*

TABLE 27

ANALYSIS OF FUEL FOR ELECTRIC GENERATION TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1981-1984 BY GEOGRAPHIC DIVISION

		Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division	Year	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
United States	1984	234.3¢	2.41¢	10,300	175.2¢	$36.52	10,424	490.9¢	$30.65	148,653	385.6¢	399.24¢	1,035
	1983r	227.8	2.40	10,547	172.1	36.20	10,517	480.1	29.93	148,452	348.7	358.30	1,028
	1982	234.0	2.46	10,517	169.4	35.98	10,621	507.1	31.52	148,000	339.9	351.69	1,034
	1981	230.2	2.42	10,506	158.1	33.71	10,659	535.8	33.11	147,128	280.8	290.50	1,035
New England	1984	399.5	4.06	10,155	220.5	56.28	13,153	472.1	29.65	149,571	406.9	427.19	1,050
	1983r	390.2	4.03	10,330	235.7	62.19	13,153	443.3	27.81	149,381	395.3	414.65	1,049
	1982	411.3	4.21	10,236	247.2	63.56	12,854	463.4	28.94	148,703	404.9	425.05	1,050
	1981	480.9	4.96	10,323	214.0	54.10	12,638	511.6	31.89	148,392	377.2	379.40	1,006
Middle Atlantic	1984	287.5	2.96	10,297	176.9	42.34	11,966	496.7	30.92	148,195	429.0	442.60	1,032
	1983r	280.4	2.95	10,529	167.3	41.46	12,394	477.8	29.74	148,180	419.5	433.35	1,033
	1982	286.7	3.00	10,479	174.6	42.88	12,283	514.9	31.97	147,833	429.3	441.38	1,028
	1981	297.3	3.18	10,704	169.9	40.92	12,043	528.7	32.67	147,103	380.2	392.20	1,032
East North Central	1984	199.4	1.97	9,905	192.9	40.98	10,625	619.9	38.64	148,423	464.7	338.94	729
	1983r	193.5	2.00	10,361	183.7	40.70	11,079	711.9	44.41	148,543	475.2	356.47	750
	1982	193.6	2.03	10,522	181.1	40.19	11,093	691.0	43.01	148,211	407.7	351.90	863
	1981	185.5	1.94	10,463	168.7	37.09	10,995	633.8	39.07	146,786	351.5	303.07	862
West North Central	1984	149.1	1.60	10,746	144.3	25.72	8,910	548.6	31.98	138,813	332.9	325.81	991
	1983r	152.9	1.64	10,747	146.9	25.60	8,711	449.4	25.98	137,616	316.3	308.51	991
	1982	141.0	1.56	11,079	134.0	24.20	9,029	509.5	27.46	142,276	262.9	259.18	985
	1981	134.4	1.48	11,000	126.9	23.67	9,326	412.3	24.85	143,511	228.1	225.35	988
South Atlantic	1984	226.0	2.25	9,967	193.6	47.45	12,235	461.0	28.86	149,032	372.0	375.04	1,008
	1983r	230.8	2.42	10,504	195.0	48.05	12,320	439.7	27.60	149,464	266.9	268.88	1,007
	1982	230.0	2.31	10,072	193.1	46.80	12,119	446.7	27.94	148,902	221.7	224.22	1,011
	1981	234.4	2.38	10,156	179.5	43.32	12,065	475.5	29.54	147,902	190.0	197.95	1,042
East South Central	1984	187.2	1.90	10,160	183.5	43.22	11,777	620.1	37.63	144,489	259.9	272.72	1,029
	1983r	191.9	1.93	10,064	187.2	43.29	11,559	569.4	33.15	138,606	308.6	317.85	1,029
	1982	195.7	1.99	10,172	188.1	44.22	11,750	530.9	32.91	147,610	295.4	302.62	1,024
	1981	181.5	1.84	10,153	174.5	40.53	11,616	393.2	24.04	145,571	257.7	262.68	1,019
West South Central	1984	275.9	2.90	10,519	182.2	28.74	7,887	477.0	28.56	142,547	344.7	357.27	1,036
	1983r	249.0	2.66	10,672	176.0	27.88	7,920	363.3	21.05	137,927	305.8	315.13	1,031
	1982	248.8	2.65	10,649	156.2	24.19	7,739	478.9	28.30	140,731	297.2	308.40	1,037
	1981	214.6	2.28	10,610	140.0	21.40	7,641	489.1	30.30	147,528	242.5	250.96	1,035
Mountain	1984	125.4	1.37	10,932	112.8	21.84	9,638	519.7	31.21	143,016	442.0	474.13	1,073
	1983r	120.6	1.33	11,057	107.7	21.28	9,874	516.8	31.23	143,893	390.4	368.77	945
	1982	123.7	1.36	11,051	104.4	20.49	9,808	512.3	30.87	143,486	358.2	368.61	1,028
	1981	121.0	1.33	10,964	93.0	18.16	9,767	491.8	29.53	142,987	291.3	299.95	1,030
Pacific	1984	470.7	5.18	11,005	157.5	24.86	7,893	587.1	36.14	146,573	508.1	533.04	1,049
	1983r	491.9	5.44	11,063	149.3	22.79	7,636	761.2	47.21	147,656	510.8	534.35	1,046
	1982	506.4	5.50	10,871	121.5	19.65	8,038	743.3	44.61	142,911	501.1	526.18	1,050
	1981	452.7	4.81	10,626	116.6	18.79	8,055	667.2	40.33	143,913	394.6	415.48	1,053
Alaska	1984	242.9	2.99	12,322	179.8	28.30	7,872	613.8	31.94	123,874	148.3	148.28	1,000
	1983r	280.6	3.61	12,848	174.5	27.26	7,811	687.8	37.11	128,465	137.0	136.98	1,000
	1982	116.6	1.76	15,135	132.5	20.30	7,658	549.5	27.64	135,550	79.2	79.20	1,000
	1981	137.9	2.11	15,313	190.0	30.63	8,035	879.1	51.28	138,883	99.5	99.50	1,000
Hawaii	1984	546.6	5.75	10,517	–	–	–	546.6	34.25	149,196	–	–	–
	1983r	547.4	5.73	10,468	–	–	–	547.4	34.24	148,933	–	–	–
	1982	661.9	6.97	10,529	–	–	–	661.9	41.53	149,453	–	–	–
	1981	659.0	6.98	10,598	–	–	–	659.0	40.96	147,992	–	–	–

r Revised.

(a) Coal includes bituminous and anthracite coal and relatively small amounts of lignite and wood. 1983 includes petroleum coke; 1984 excludes petroleum coke.

(b) Oil includes fuel oil, crude oil, and small amounts of tar and gasoline. 1983 excludes petroleum coke; 1984 includes petroleum coke.

(c) Gas includes natural and manufactured gas and waste gas.

TABLE 28

ANALYSIS OF FUEL FOR ELECTRIC GENERATION
TOTAL ELECTRIC UTILITY INDUSTRY

FUEL BURNED UNDER BOILERS AND BY INTERNAL COMBUSTION ENGINES
1984 BY STATE

	Composite Averages			Coal (a)			Oil (b)			Gas (c)		
Division/State	Cost per Million Btu Consumed	Cost of Fuel per Net kWh	Btu per Net kWh	Cost per Million Btu Consumed	Cost per Ton	Btu per Pound	Cost per Million Btu Consumed	Cost per Bbl	Btu per Gallon	Cost per Million Btu Consumed	Cost per M Cu Ft	Btu per Cu Ft
Total United States	**234.3¢**	**2.41¢**	**10,300**	**175.2¢**	**$36.52**	**10,424**	**490.9¢**	**$30.65**	**148,653**	**385.6¢**	**399.24¢**	**1,035**
Maine	498.5	5.39	10,821	—	—	—	498.5	31.31	149,530	—	—	—
New Hampshire	299.3	3.10	10,372	204.3	54.79	13,409	438.3	28.14	152,840	—	—	—
Vermont	251.8	3.92	15,582	220.6	23.94	5,426	670.6	39.10	138,806	407.0	407.00	1,000
Massachusetts	375.9	3.71	9,863	225.4	59.31	13,158	463.1	29.02	149,235	411.1	433.37	1,054
Rhode Island	430.6	5.71	13,262	—	—	—	465.8	29.32	149,888	392.8	405.03	1,031
Connecticut	483.2	5.04	10,431	—	—	—	485.2	30.46	149,487	369.9	380.25	1,028
New England	**399.5**	**4.06**	**10,155**	**220.5**	**56.28**	**13,153**	**472.1**	**29.65**	**149,571**	**406.9**	**427.19**	**1,050**
New York	390.3	4.19	10,731	188.6	46.62	12,359	494.5	30.78	148,166	423.8	436.24	1,029
New Jersey	380.3	4.19	11,017	202.6	52.62	12,987	510.2	31.89	148,818	436.5	452.16	1,036
Pennsylvania	204.5	2.03	9,910	172.7	40.84	11,823	495.4	30.78	147,925	474.4	485.21	1,023
Middle Atlantic	**287.5**	**2.96**	**10,297**	**176.9**	**42.34**	**11,966**	**496.7**	**30.92**	**148,195**	**429.0**	**442.60**	**1,032**
Ohio	203.1	1.81	8,914	202.6	41.58	10,260	560.9	36.67	155,661	589.4	615.53	1,044
Indiana	161.5	1.62	10,033	160.7	34.70	10,799	614.2	37.67	146,024	419.0	413.65	987
Illinois	241.1	2.58	10,688	222.0	46.41	10,452	638.0	40.49	151,121	503.1	518.69	1,031
Michigan	198.8	2.03	10,197	191.1	45.78	11,974	554.3	32.92	141,412	456.7	231.70	507
Wisconsin	186.4	2.02	10,857	181.4	35.39	9,756	643.1	37.62	139,292	417.7	415.79	995
East North Central	**199.4**	**1.97**	**9,905**	**192.9**	**40.98**	**10,625**	**619.9**	**38.64**	**148,423**	**464.7**	**338.94**	**729**
Minnesota	144.8	1.59	10,972	143.0	24.84	8,685	436.2	25.63	139,894	378.5	378.94	1,000
Iowa	165.3	1.87	11,337	161.8	29.65	9,160	491.8	28.24	136,705	388.0	395.54	1,000
Missouri	156.2	1.60	10,245	154.9	32.76	10,575	624.9	36.85	140,415	390.2	388.76	1,000
North Dakota	96.2	0.98	10,221	94.3	12.19	6,462	571.6	32.75	136,446	460.8	528.57	1,147
South Dakota	123.1	1.49	12,132	120.7	15.08	6,244	538.2	31.04	137,333	580.5	414.52	714
Nebraska	139.6	1.50	10,713	136.7	23.93	8,757	562.3	32.48	143,261	362.5	341.39	942
Kansas	169.5	1.95	11,500	152.7	27.40	8,976	531.9	31.82	142,445	321.7	314.03	976
West North Central	**149.1**	**1.60**	**10,746**	**144.3**	**25.72**	**8,910**	**548.6**	**31.98**	**138,813**	**332.9**	**325.81**	**991**
Delaware	270.5	2.86	10,582	184.6	53.19	13,060	424.2	26.64	149,563	418.1	419.42	1,003
Maryland and D.C.	244.2	2.53	10,370	189.8	47.77	12,588	501.9	30.80	146,115	432.3	450.94	1,043
Virginia	212.9	2.18	10,223	186.7	46.99	12,585	482.8	29.95	147,670	428.6	445.81	1,035
West Virginia	165.9	1.61	9,731	165.9	40.39	12,173	621.1	36.57	140,187	—	—	—
North Carolina	197.9	1.92	9,689	196.7	49.10	12,479	581.4	33.58	136,600	432.6	448.19	1,035
South Carolina	194.6	1.96	10,050	192.9	48.21	12,493	559.0	32.91	140,000	583.1	598.41	1,026
Georgia	202.0	2.06	10,188	201.5	48.23	11,970	611.4	32.99	128,485	441.2	452.36	1,025
Florida	338.0	3.36	9,928	245.6	58.89	11,988	454.3	28.59	149,801	367.2	369.86	1,042
South Atlantic	**226.0**	**2.25**	**9,967**	**193.6**	**47.45**	**12,235**	**461.0**	**28.86**	**149,032**	**372.0**	**375.04**	**1,008**
Kentucky	156.6	1.60	10,195	155.7	36.06	11,579	613.1	35.81	139,084	333.3	341.31	1,024
Tennessee	171.2	1.70	9,921	171.2	40.13	11,723	358.1	21.10	140,254	346.9	362.16	1,044
Alabama	219.8	2.22	10,111	219.6	52.88	12,038	418.3	24.65	140,309	377.7	420.18	1,031
Mississippi	257.1	2.80	10,877	253.0	61.54	12,165	664.2	41.26	147,901	257.1	269.95	1,050
East South Central	**187.2**	**1.90**	**10,160**	**183.5**	**43.22**	**11,777**	**620.1**	**37.63**	**144,489**	**259.9**	**272.72**	**1,029**
Arkansas	220.6	2.39	10,831	199.4	34.06	8,542	708.4	40.92	137,530	332.7	347.92	1,046
Louisiana	288.2	3.11	10,792	236.9	38.77	8,184	476.5	29.18	145,772	304.9	319.58	1,048
Oklahoma	220.2	2.34	10,604	173.9	29.83	8,580	380.8	22.48	140,530	263.5	274.24	1,041
Texas	288.6	3.01	10,428	174.8	26.64	7,621	463.1	27.55	141,656	368.4	380.40	1,033
West South Central	**275.9**	**2.90**	**10,519**	**182.2**	**28.74**	**7,887**	**477.0**	**28.56**	**142,547**	**344.7**	**357.27**	**1,036**
Montana	73.3	0.86	11,763	71.4	12.49	8,744	610.4	31.26	121,958	284.4	327.24	1,151
Idaho	448.3	6.32	14,094	—	—	—	286.5	16.85	140,000	595.4	624.00	1,048
Wyoming	98.4	1.06	10,780	97.3	16.87	8,670	641.6	37.67	139,786	512.0	536.05	1,039
Colorado	123.6	1.33	10,774	118.9	23.16	9,742	515.6	29.35	135,555	378.3	354.51	937
New Mexico	102.6	1.10	10,738	94.7	17.23	9,099	319.0	19.13	142,768	323.2	399.48	1,236
Arizona	171.6	1.82	10,605	131.2	27.58	10,510	504.6	30.88	145,710	487.0	516.46	1,061
Utah	137.4	1.46	10,628	135.7	31.06	11,442	612.4	36.01	140,000	370.3	379.55	1,025
Nevada	155.9	1.92	12,305	138.0	31.08	11,256	453.7	27.02	141,796	447.2	473.93	1,060
Mountain	**125.4**	**1.37**	**10,932**	**112.8**	**21.84**	**9,683**	**519.7**	**31.21**	**143,016**	**442.0**	**474.13**	**1,073**
Washington	150.6	1.64	10,916	149.9	23.58	7,866	612.5	36.13	140,440	375.9	384.19	1,022
Oregon	233.1	2.54	10,880	233.1	38.07	8,165	—	—	—	—	—	—
California	511.2	5.63	11,017	—	—	—	587.0	36.14	146,598	508.1	533.04	1,049
Pacific	**470.7**	**5.18**	**11,005**	**157.5**	**24.86**	**7,893**	**587.1**	**36.14**	**146,573**	**508.1**	**533.04**	**1,049**
Alaska	242.9	2.99	12,322	179.8	28.30	7,872	613.8	31.94	123,874	148.3	148.28	1,000
Hawaii	546.6	5.75	10,517	—	—	—	546.6	34.25	149,196	—	—	—
Alaska & Hawaii	**492.4**	**5.32**	**10,799**	**179.8**	**28.30**	**7,872**	**549.1**	**34.14**	**148,051**	**148.3**	**148.28**	**1,000**

See page 35 for footnotes.

TABLE 29

AVERAGE COST OF FOSSIL FUELS DELIVERED TO STEAM-ELECTRIC UTILITY PLANTS

BY YEARS
(CENTS PER MILLION BTU)

Year	Coal	Residual Oil*	Natural Gas**	All Fossil Fuels**
1984	166.4	481.2	358.3	219.2
1983	165.6	457.8	347.4	220.6
1982	164.7	483.2	337.6	224.9
1981	153.2	533.4	280.5	225.6
1980	135.1	426.7	219.9	192.8
1979	122.4	298.8	174.9	163.9

**Residual fuel oil prices include Fuel Oil No. 4, No. 5, No. 6, and topped crude fuel oil prices. The weighted average for all fossil fuels includes both residual fuel oil prices and light oil (Fuel Oil No. 2, kerosene, and jet fuel) prices.*

***Includes small quantities of coke oven gas, refinery gas and blast furnace gas.*

Source: U.S. Department of Energy, Energy Information Administration, Monthly Energy Review.

ENERGY

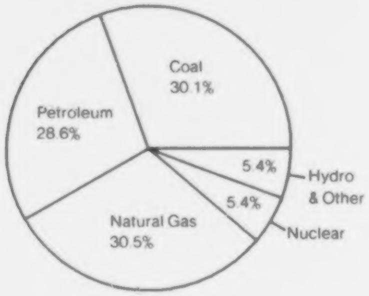
SECTION V

CHART V-A

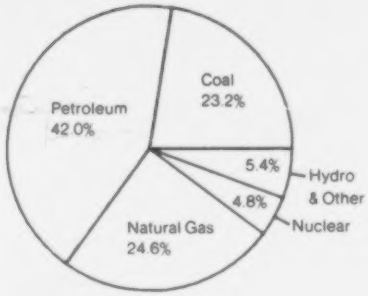
ENERGY PRODUCTION AND CONSUMPTION

BY PRIMARY ENERGY SOURCE

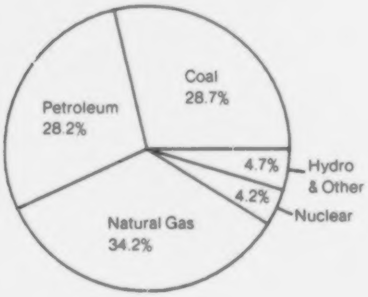
1984 Production
Total BTU's = 65.934 Quads



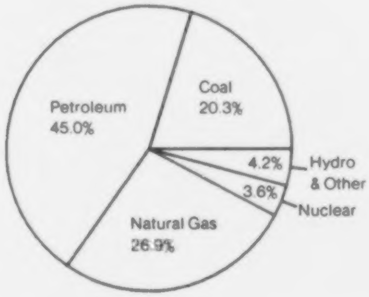
1984 Consumption
Total BTU's = 74.033 Quads



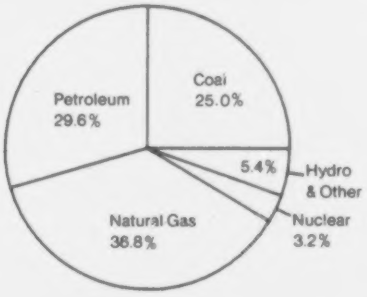
1980 Production
Total BTU's = 64.764 Quads



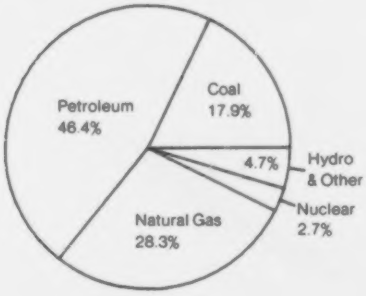
1980 Consumption
Total BTU's = 75.955 Quads



1975 Production
Total BTU's = 59.865 Quads



1975 Consumption
Total BTU's = 70.551 Quads



Source: U.S. Department of Energy. Energy Information Administration. 'Monthly Energy Review' July, 1985.

TABLE 31

ENERGY SUPPLY AND DISPOSITION BALANCE BY YEARS

(QUADRILLION BTU)

	1984p	1983r	1982	1981	1980	1979	1978	1977	1976	1975	1974
SUPPLY											
Production											
Crude Oil & Lease Condensate	18.59	18.39	18.31	18.15	18.25	18.10	18.43	17.45	17.26	17.73	18.57
Natural Gas Plant Liquids	2.37	2.18	2.19	2.31	2.25	2.29	2.25	2.33	2.33	2.37	2.47
Natural Gas	17.75	16.53	18.25	19.70	19.91	20.08	19.49	19.57	19.48	19.64	21.21
Coal	19.70	17.25	18.64r	18.38r	18.60r	17.55r	14.91r	15.76r	15.66r	15.00r	14.08r
Nuclear	3.55	3.20	3.13r	3.01	2.74	2.78	3.02	2.70	2.11	1.90	1.27
Hydro	3.39	3.50	3.26r	2.76	2.90	2.93	2.94	2.33	2.98	3.15	3.18
Other	0.17	0.13	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06
Total Production	**65.51**	**61.20**	**63.89r**	**64.42r**	**64.76r**	**63.81r**	**61.11r**	**60.22r**	**59.90r**	**59.87r**	**60.84r**
Imports											
Crude Oil	7.25	7.08	7.42	9.34	11.19	13.83	13.46	14.03	11.24	8.72	7.40
Refined Petroleum Products	4.10	3.57	3.36	3.30	3.46	4.11	4.36	4.73	4.43	4.23	5.73
Natural Gas	0.88	0.94	0.95	0.92	1.01	1.30	0.99	1.04	0.99	0.98	0.99
Other	0.48	0.44	0.36r	0.42	0.31	0.38r	0.44	0.30	0.18	0.19	0.30r
Total Imports	**12.71**	**12.03**	**12.09r**	**13.97r**	**15.97**	**19.62**	**19.25r**	**20.09**	**16.84**	**14.11**	**14.41r**
Adjustments	(0.68)	1.00	(0.51)	(0.08)	(1.05)	(1.66)r	(0.34)	(1.95)	(0.18)r	(1.07)	(0.48)
Total Supply	**77.54**	**74.22**	**75.47r**	**78.32r**	**79.68r**	**81.77r**	**80.02r**	**78.36r**	**76.55r**	**72.91r**	**74.77r**
DISPOSITION											
Exports											
Coal	2.15	2.04	2.79	2.94	2.42	1.75	1.08	1.44	1.60	1.76	1.62
Other	1.67	1.68	1.84r	1.38r	1.30r	1.11r	0.86r	0.63	0.59	0.60	0.60
Total Exports	**3.82**	**3.72**	**4.63**	**4.33**	**3.72r**	**2.87**	**1.93**	**2.07**	**2.19**	**2.36**	**2.22**
Consumption											
Refined Petroleum Products	31.00	30.05	30.23	31.93	34.20	37.12	37.97	37.12	35.17	32.73	33.45
Natural Gas	18.03	17.36	18.51	19.93	20.39	20.67	20.00	19.93	20.35	19.95	21.73
Coal	17.20	15.90	15.32r	15.91r	15.43r	15.04r	13.77r	13.92r	13.59r	12.67r	12.67r
Nuclear	3.55	3.20	3.13r	3.01	2.74	2.78	3.02	2.70	2.11	1.90	1.27
Hydro	3.78	3.87	3.56r	3.11	3.12	3.14	3.14	2.51	3.07	3.22	3.31
Other	0.17	0.13	0.11	0.13	0.11	0.09	0.07	0.08	0.08	0.07	0.06
Net Imports of Coal Coke	(0.01)	(0.02)	(0.02)	(0.02)	(0.04)	0.06r	0.12r	0.01r	*	0.01	0.06
Total Consumption	**73.73**	**70.50**	**70.84r**	**73.99r**	**75.96r**	**78.90r**	**78.09r**	**76.29r**	**74.37r**	**70.55r**	**72.55r**
Total Disposition	**77.54**	**74.22**	**75.47r**	**78.32r**	**79.68r**	**81.77r**	**80.02r**	**78.36r**	**76.55r**	**72.91r**	**74.77r**

	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964
SUPPLY										
Production										
Crude Oil & Lease Condensate	19.49	20.04	20.03	20.40	19.56	19.31	18.65	17.56	16.52	16.16
Natural Gas Plant Liquids	2.57	2.60	2.54	2.51	2.42	2.32	2.18	2.00	1.88	1.80
Natural Gas	22.19	22.21	22.28	21.67	20.45	19.07	17.94	17.01	15.78	15.30
Coal	14.00r	14.03	13.13	14.61r	14.20	13.93	14.19	13.82	13.38	12.83
Nuclear	0.91	0.58	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04
Hydro	2.86	2.86	2.82	2.63	2.65	2.35	2.35	2.06	2.06	1.89
Other	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Total Production	**62.07r**	**62.36**	**61.23**	**62.08r**	**59.44**	**57.13**	**55.41**	**52.52**	**49.67**	**48.03**
Imports										
Crude Oil	6.89	4.71	3.57	2.81	2.99	2.76	2.40	2.62	2.65	2.58
Refined Petroleum Products	6.58	5.59	4.97	4.66	3.91	3.46	3.15	3.01	2.75	2.38
Natural Gas	1.06	1.05	0.96	0.85	0.75	0.67	0.58	0.50	0.47	0.46
Other	0.20r	0.11	0.08	0.07	0.06	0.05	0.05	0.05	0.04	0.07
Total Imports	**14.73**	**11.46**	**9.58**	**8.39**	**7.71**	**6.93**	**6.19**	**6.18**	**5.92**	**5.49**
Adjustments	(0.46)	(0.48)	(0.82)	(1.37)r	(0.47)	(0.71)	(1.56)	(0.85)	(0.74)	(0.90)
Total Supply	**76.34r**	**73.33**	**70.00**	**69.10r**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**
DISPOSITION										
Exports										
Coal	1.43	1.53	1.55	1.94	1.53	1.38	1.35	1.35	1.38	1.34
Other	0.63	0.61	0.63	0.73	0.62	0.65	0.79	0.50	0.48	0.51
Total Exports	**2.05**	**2.14**	**2.18**	**2.66**	**2.15**	**2.03**	**2.15**	**1.85**	**1.86**	**1.85**
Consumption										
Refined Petroleum Products	34.84	32.95	30.56	29.52	28.34	26.98	25.28	24.40	23.25	22.30
Natural Gas	22.51	22.70	22.47	21.79	20.68	19.21	17.94	17.00	15.77	15.29
Coal	12.98r	12.01	11.54	12.27r	12.72	12.66	12.24	12.48	11.89	11.25
Nuclear	0.91	0.58	0.41	0.24	0.15	0.14	0.09	0.06	0.04	0.04
Hydro	3.01	2.94	2.86	2.65	2.66	2.34	2.34	2.07	2.06	1.91
Other	0.05	0.03	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01
Net Imports of Coal Coke	(0.01)	(0.03)	(0.03)	(0.06)	(0.04)	(0.02)	(0.02)	(0.03)	(0.02)	(0.01)
Total Consumption	**74.29r**	**71.19**	**67.82**	**66.44r**	**64.53**	**61.32**	**57.89**	**55.99**	**52.99**	**50.78**
Total Disposition	**76.34r**	**73.33**	**70.00**	**69.10r**	**66.68**	**63.35**	**60.04**	**57.85**	**54.85**	**52.62**

**Less than .005 Quadrillion BTU.*

( ) Denotes negative figure. p Preliminary. r Revised.

Note: Total may not equal sum of components due to independent rounding.

Source: U.S. Department of Energy. Energy Information Administration. Annual Energy Review 1984.

TABLE 32

ANNUAL PRODUCTION OF ENERGY RESOURCES BY YEARS

(QUADRILLION BTU)

Year	Coal^r	Natural Gas*	Natural Gas Plant Liquids	Petroleum**	Hydro	Nuclear	Other†	Total^r
1984p	**19.70**	**17.75**	**2.37**	**18.59**	**3.39**	**3.55**	**0.17**	**65.51**
1983r	17.25	16.53	2.18	18.39	3.50	3.20	0.13	61.20
1982	18.64	18.25	2.19	18.31	3.26r	3.13r	0.10	63.89
1981	18.38	19.70	2.31	18.15	2.76	3.01	0.12	64.42
1980	18.60	19.91	2.25	18.25	2.90	2.74	0.11	64.76
1979	17.55	20.08	2.29	18.10	2.93	2.78	0.09	63.81
1978	14.91	19.49	2.25	18.43	2.94	3.02	0.06	61.11
1977	15.76	19.57	2.33	17.45	2.33	2.70	0.09	60.22
1976	15.66	19.48	2.33	17.26	2.98	2.11	0.08	59.90
1975	15.00	19.64	2.37	17.73	3.15	1.90	0.07	59.87
1974	14.08	21.21	2.47	18.57	3.18	1.27	0.05	60.84
1973	14.00	22.19	2.57	19.49	2.86	0.91	0.04	62.07
1972	14.09	22.21	2.60	20.04	2.86	0.58	0.03	62.42
1971	13.20	22.28	2.54	20.03	2.82	0.41	0.01	61.31
1970	14.61	21.67	2.51	20.40	2.63	0.24	0.01	62.08
1969	13.87	20.45	2.42	19.56	2.65	0.15	0.01	59.11
1968	13.62	19.07	2.32	19.31	2.35	0.14	0.01	56.82
1967	13.84	17.94	2.18	18.65	2.35	0.09	0.01	55.05
1966	13.48	17.01	2.00	17.56	2.06	0.06	‡	52.18
1965	13.07	15.78	1.88	16.52	2.06	0.04	‡	49.35
1964	12.53	15.30	1.80	16.16	1.89	0.04	‡	47.73

Note: Total may not equal sum of components due to independent rounding.

* *Dry market natural gas.*

** *Crude oil and lease condensate.*

† *Includes geothermal, wood, waste, wind and solar.*

‡ *Less than .005 Quadrillion BTU.*

p Preliminary. r Revised. All coal data prior to 1984 revised.

Source: U.S. Department of Energy. Energy Information Administration. Annual Energy Review 1984.

TABLE 33

TOTAL ENERGY CONSUMPTION BY YEARS

(QUADRILLION BTU)

Year	Coal[r]	Natural Gas (Dry)	Petroleum*	Hydro	Nuclear	Other**	Total[r]
1984p	**17.20**	**18.03**	**31.00**	**3.78**	**3.55**	**0.16**	**73.73**
1983r	15.90	17.36	30.05	3.87	3.20	0.11	70.50
1982	15.32	18.51	30.23	3.56r	3.13r	0.08	70.84
1981	15.91	19.93	31.93	3.11	3.01	0.10	73.99
1980	15.43	20.39	34.20	3.12	2.74	0.07	75.96
1979	15.04	20.67	37.12	3.14	2.78	0.15r	78.90
1978	13.77	20.00	37.97	3.14	3.02	0.18r	78.09
1977	13.92	19.93	37.12	2.51	2.70	0.10r	76.29
1976	13.59	20.35	35.17	3.07	2.11	0.08	74.37
1975	12.67	19.95	32.73	3.22	1.90	0.08	70.55
1974	12.67	21.73	33.45	3.31	1.27	0.11	72.55
1973	12.98	22.51	34.84	3.01	0.91	0.03	74.29
1972	12.08	22.70	32.95	2.94	0.58	0.00	71.27
1971	11.61	22.47	30.56	2.86	0.41	(0.02)	67.90
1970	12.27	21.79	29.52	2.65	0.24	(0.05)	66.44
1969	12.39	20.68	28.34	2.66	0.15	(0.03)	64.20
1968	12.34	19.21	26.98	2.34	0.14	(0.01)	61.01
1967	11.92	17.94	25.28	2.34	0.09	(0.01)	57.58
1966	12.15	17.00	24.40	2.07	0.06	(0.02)r	55.67
1965	11.59	15.77	23.25	2.06	0.04	(0.02)	52.69
1964	10.98	15.29	22.30	1.91	0.04	(0.01)	50.51

Note: Total may not equal sum of components due to independent rounding.

**Refined pretroleum products supplied including natural gas plant liquids and crude oil burned as fuel.*

***Includes geothermal, wood, waste, net imports of coal coke, wind and solar.*

( ) Denotes negative figure.

p Preliminary. r Revised. All coal data prior to 1984 revised.

Source: U.S. Department of Energy. Energy Information Administration. Annual Energy Review 1984.

TABLE 34

ANNUAL CONSUMPTION OF FOSSIL ENERGY RESOURCES

BY KIND OF FUEL, BY SECTOR*
(QUADRILLION BTU)

	1984p	1983r	1982	1981	1980	1979
Coal						
Residential & Commercial	0.21	0.20	0.19	0.17	0.15	0.19
Industrial	2.86	2.49	2.55r	3.16r	3.16r	3.59r
Transportation	**	**	**	**	**	**
Electric Utilities	14.09	13.21	12.58	12.58	12.12	11.26
Total	17.17	15.90	15.32r	15.91r	15.43r	15.04r
Natural Gas (Dry)						
Residential & Commercial	6.91	7.02	7.43	7.24r	7.54	7.89
Industrial	7.38	6.82	7.12	8.26r	8.39	8.55
Transportation	0.52	0.50	0.61	0.66	0.65	0.61
Electric Utilities	3.21	3.00	3.34	3.77r	3.81	3.61
Total	18.03	17.35	18.51	19.93	20.39	20.67
Petroleum						
Residential & Commerical	2.44	2.32	2.45	2.63	3.04	3.45
Industrial	7.97	7.58	7.80	8.30	9.52	10.58
Transportation	19.30	18.61	18.42	18.80	19.01	19.82
Electric Utilities	1.29	1.54	1.57	2.20	2.63	3.28
Total	31.00	30.05	30.23	31.93	34.20	37.12

**Sector data excludes electricity sales and energy losses attributed to electric generation.*

***Since 1976 the amount of coal consumed by the transportation sector has been negligible.*

p Preliminary. Total consumption by fuels will not agree with Energy Supply and Disposition Balance (Table 31) and Total Energy Consumption (Table 33) due to data revisions.

r Revised.

Note: Total may not equal sum of components due to independent rounding.

Source: U.S. Department of Energy. Energy Information Administration. Monthly Energy Review.

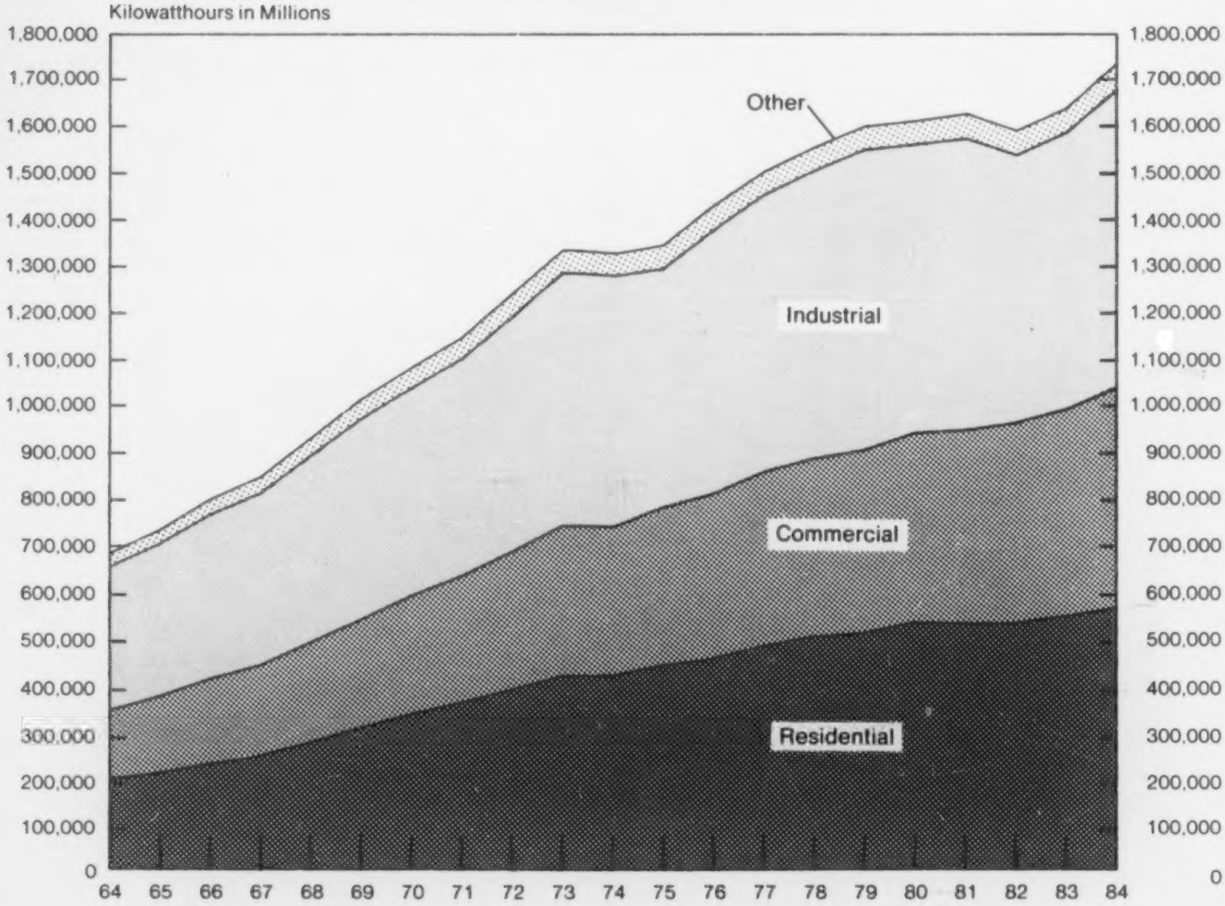
ENERGY SALES

SECTION VI

CHART VI-A

SALES TO ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



Based on Table 39, page 44.

TABLE 38

ENERGY SALES

TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Exports to Canada and Mexico	Total Sales to Ultimate Customers	Resi-dential	Commer-cial*	Industrial*	Street and Highway Lighting	Other Public Author-ities	Railroads and Railways	Inter-depart-mental
1984p	**2,288,090**	**2,558**	**2,285,532**	**780,679**	**583,422**	**835,989**	**14,130**	**61,029**	**4,488**	**5,795**
1983r	2,163,124	3,337	2,159,787	750,293	545,601	782,984	13,944	57,267	4,300	5,398
1982	2,103,281	3,540	2,099,741	732,678	516,959	770,398	14,236	55,745	4,288	5,438
1981	2,152,506	1,832	2,150,674	730,479	521,698	819,641	14,683	53,737	4,206	6,230
1980	2,130,190	4,096	2,126,094	734,411	524,122	793,812	14,832	48,284	4,275	6,358
1979	2,086,582	2,182	2,084,400	695,996	494,723	817,617	14,792	49,604	4,256	7,412
1978	2,020,004	2,186	2,017,818	679,156	480,748	782,141	14,803	49,509	4,336	7,125
1977	1,953,535	2,744	1,950,791	652,345	469,227	757,168	14,418	46,242	4,212	7,179
1976	1,852,003	2,378	1,849,625	613,072	440,625	725,169	14,413	45,625	4,338	6,383
1975	1,738,107	5,083	1,733,024	586,149	418,069	661,558	13,907	43,625	4,273	5,443
1974	1,703,495	2,726	1,700,769	554,960	392,716	689,435	13,313	40,721	4,258	5,366
1973	1,705,773	2,570	1,703,203	554,171	396,903	687,235	12,836	42,340	4,186	5,532
1972	1,580,466	2,752	1,577,714	511,423	361,859	639,467	12,193	43,190	4,440	5,142
1971	1,469,955	3,514	1,466,441	479,080	333,752	592,700	11,673	39,819	4,537	4,880
1970	1,395,568	4,209	1,391,359	447,795	312,750	572,522	11,183	37,816	4,633	4,660
1969	1,311,008	3,830	1,307,178	407,922	286,686	557,220	10,772	35,861	4,531	4,186
1968	1,206,606	4,285	1,202,321	367,692	265,151	518,834	10,302	32,162	4,540	3,640
1967	1,111,373	4,350	1,107,023	331,525	242,492	486,043	9,863	29,426	4,572	3,102
1966	1,042,158	3,176	1,038,982	306,572	225,878	465,077	9,240	25,922	4,514	1,779
1965	957,113	3,699	953,414	280,970	202,112	433,365	8,782	21,675	4,652	1,858
1964	894,609	4,253	890,356	262,010	183,539	409,356	8,290	20,651	4,721	1,789

Note: Total may not equal sum of components due to independent rounding.
**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 39

ENERGY SALES

INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
KILOWATTHOURS IN MILLIONS

Year	Total Sales	Sales for Resale†	Total Sales to Ultimate Customers	Resi-dential	Commer-cial*	Industrial*	Street and Highway Lighting	Other Public Author-ities	Railroads and Railways	Inter-depart-mental
1984p	**1,841,025**	**104,168**	**1,736,857**	**563,548**	**473,487**	**643,446**	**10,181**	**40,950**	**2,045**	**3,199**
1983r	1,749,915	109,540	1,640,375	546,080	445,300	597,405	10,445	36,396	1,929	2,820
1982	1,701,020	109,796	1,591,224	530,713	431,598	576,380	10,716	36,967	1,924	2,925
1981	1,745,234	116,248	1,628,986	527,119	420,014	628,481	10,918	37,623	1,939	2,892
1980	1,732,553	118,745	1,613,808	532,025	408,265	623,472	10,820	34,449	2,156	2,621
1979	1,719,640	117,408	1,602,232	509,655	394,511	648,031	10,854	34,165	2,103	2,913
1978	1,675,477	118,716	1,556,761	501,409	384,726	620,470	11,042	34,386	2,085	2,643
1977	1,619,820	115,409	1,504,411	481,167	375,903	598,042	10,912	33,208	2,450	2,729
1976	1,530,286	99,496	1,430,790	453,774	355,555	569,134	11,276	34,810	3,930	2,311
1975	1,447,147	101,273	1,345,874	439,496	340,082	515,798	10,868	33,528	4,158	1,944
1974	1,418,958	93,201	1,325,757	416,333	319,706	542,234	10,409	30,876	4,161	2,038
1973	1,417,386	82,990	1,334,396	416,851	323,018	545,912	10,034	32,452	4,086	2,043
1972	1,316,379	76,572	1,239,807	386,561	297,028	507,080	9,581	33,491	4,333	1,733
1971	1,215,614	70,009	1,145,605	358,564	272,703	468,512	9,206	30,618	4,424	1,578
1970	1,142,777	63,032	1,079,745	333,895	254,684	447,664	8,814	28,721	4,520	1,447
1969	1,070,721	58,641	1,012,080	304,497	232,965	433,422	8,441	26,928	4,417	1,410
1968	984,542	55,572	928,970	272,792	215,090	403,468	8,089	23,908	4,424	1,199
1967	890,755	45,334	845,421	244,416	194,772	371,319	7,695	21,726	4,445	1,048
1966	840,093	43,776	796,317	226,727	182,923	354,759	7,299	19,427	4,403	779
1965	770,804	39,471	731,333	207,580	164,354	329,541	6,943	17,683	4,543	689
1964	717,951	37,980	679,971	192,855	148,050	310,678	6,592	16,580	4,606	610

Note: Total may not equal sum of components due to independent rounding.
† To non-investor-owned electric utilities and exports.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 40

ENERGY SALES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

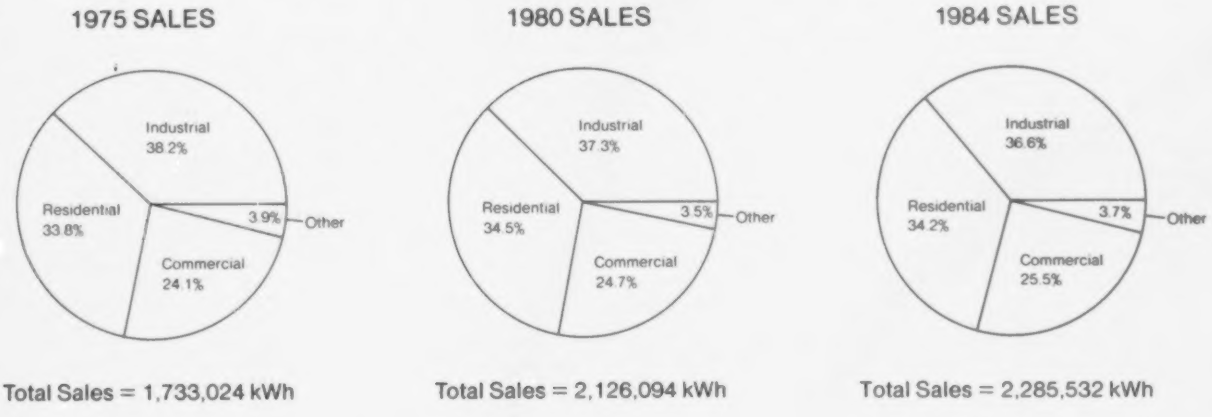
Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
1984p	**34.2%**	**25.5%**	**36.6%**	**0.6%**	**2.7%**	**0.2%**	**0.2%**
1983r	34.7	25.3	36.3	0.6	2.7	0.2	0.2
1982	34.9	24.6	36.7	0.7	2.7	0.2	0.2
1981	34.0	24.2	38.1	0.7	2.5	0.2	0.3
1980	34.5	24.7	37.3	0.7	2.3	0.2	0.3
1979	33.4	23.7	39.2	0.7	2.4	0.2	0.4
1978	33.7	23.8	38.8	0.7	2.4	0.2	0.4
1977	33.4	24.1	38.8	0.7	2.4	0.2	0.4
1976	33.2	23.8	39.2	0.8	2.5	0.2	0.3
1975	33.8	24.1	38.2	0.8	2.5	0.3	0.3
1974	32.6	23.1	40.5	0.8	2.4	0.3	0.3
1973	32.5	23.3	40.4	0.8	2.5	0.2	0.3
1972	32.4	23.0	40.5	0.8	2.7	0.3	0.3
1971	32.7	22.8	40.4	0.8	2.7	0.3	0.3
1970	32.2	22.5	41.2	0.8	2.7	0.3	0.3
1969	31.2	21.9	42.7	0.8	2.7	0.4	0.3
1968	30.6	22.1	43.1	0.8	2.7	0.4	0.3
1967	29.9	21.9	43.9	0.9	2.7	0.4	0.3
1966	29.5	21.7	44.8	0.9	2.5	0.4	0.2
1965	29.5	21.2	45.4	0.9	2.3	0.5	0.2
1964	29.4	20.6	46.0	0.9	2.3	0.6	0.2

Based on Table 38. p Preliminary. r Revised.

CHART VI-B

ENERGY SALES

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
KILOWATTHOURS IN MILLIONS



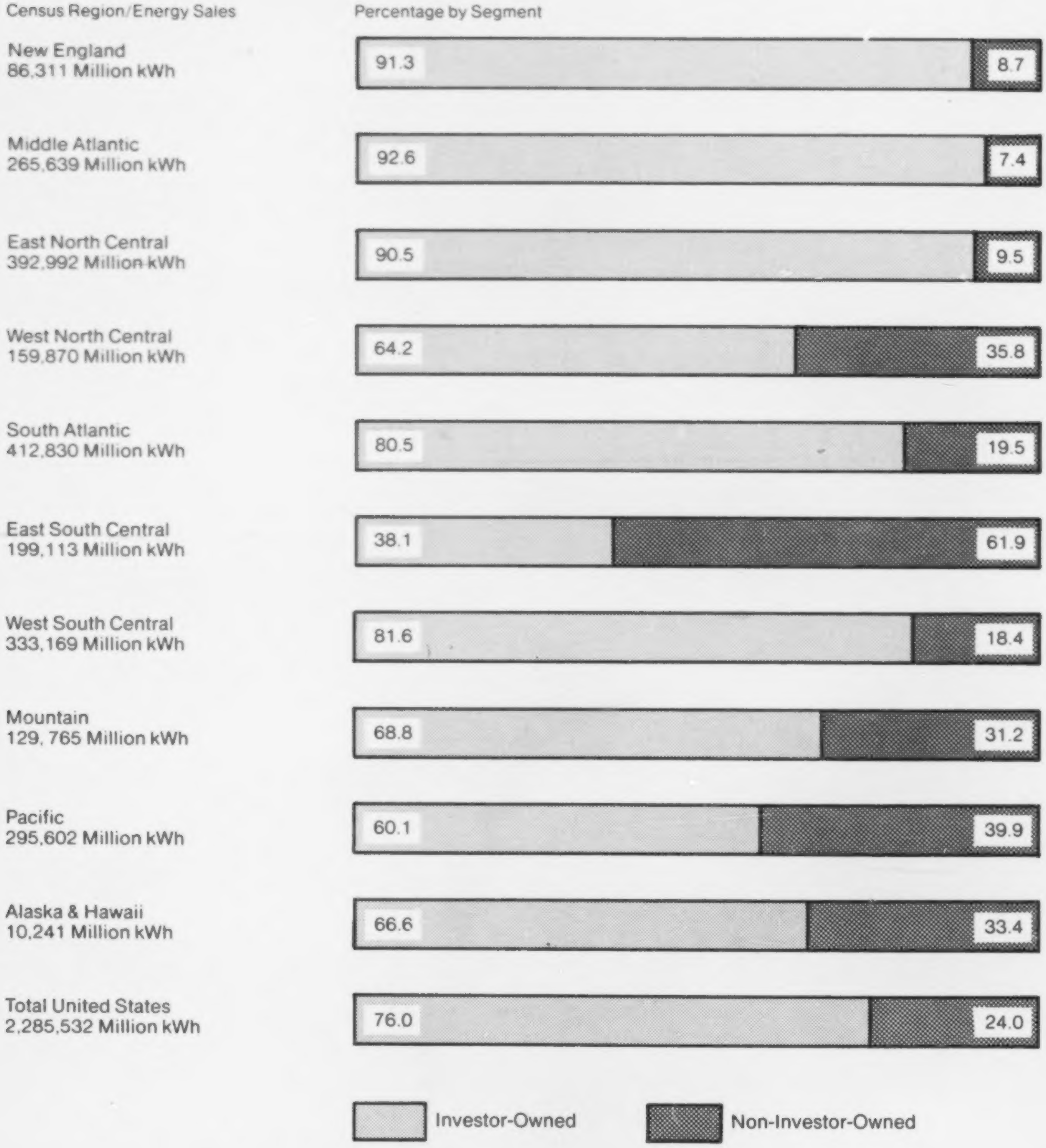
Based on Table 40, as shown above.

CHART VI-C

ENERGY SALES TO ULTIMATE CUSTOMERS

BY INVESTOR-OWNED AND NON-INVESTOR-OWNED ELECTRIC UTILITIES

1984p



p Preliminary.
Based on Table 41A, page 47 and Table 42A, page 49.

TABLE 41A

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1984p—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,285,532**	**780,679**	**583,422**	**835,989**	**14,130**	**61,029**	**4,488**	**5,795**
Maine	9,626	3,370	2,084	3,974	63	134	–	2
New Hampshire	6,784	2,762	1,397	2,535	42	47	–	*
Vermont	4,232	1,856	802	1,439	18	115	–	1
Massachusetts	37,174	13,037	13,832	9,373	373	532	28	1
Rhode Island	5,374	1,956	1,851	1,381	72	113	–	*
Connecticut	23,122	8,581	7,949	6,248	214	33	86	10
New England	**86,311**	**31,562**	**27,915**	**24,951**	**783**	**973**	**114**	**13**
New York	111,231	32,349	36,071	32,513	952	6,921	2,375	48
New Jersey	52,691	17,210	19,258	15,742	449	–	5	26
Pennsylvania	101,716	33,299	22,869	44,083	566	125	708	66
Middle Atlantic	**265,639**	**82,858**	**78,199**	**92,338**	**1,968**	**7,047**	**3,089**	**140**
Ohio	121,553	33,990	24,083	59,342	744	3,330	46	18
Indiana	60,171	20,219	11,466	27,817	365	210	13	81
Illinois	99,620	30,500	28,269	33,919	713	5,852	366	1
Michigan	70,311	22,039	16,024	30,366	463	1,345	–	73
Wisconsin	41,338	14,732	10,202	15,749	345	245	–	65
East North Central	**392,992**	**121,480**	**90,043**	**167,193**	**2,630**	**10,982**	**425**	**239**
Minnesota	37,969	12,956	6,553	17,863	216	360	–	20
Iowa	25,646	9,858	5,607	9,566	224	391	–	1
Missouri	44,529	18,455	14,345	10,631	288	784	15	11
North Dakota	6,656	2,902	1,461	1,793	53	442	–	5
South Dakota	5,409	2,661	1,493	939	44	272	–	*
Nebraska	15,762	6,125	5,141	3,678	132	610	18	57
Kansas	23,899	8,298	8,443	6,778	204	174	–	3
West North Central	**159,870**	**61,255**	**43,043**	**51,248**	**1,161**	**3,034**	**33**	**96**
Delaware	6,298	1,899	1,619	2,599	170	2	–	9
Maryland	38,372	13,972	8,927	14,918	232	95	149	80
District of Columbia	7,936	1,227	3,949	2,458	97	–	205	–
Virginia	54,985	21,792	14,110	12,961	270	5,746	21	85
West Virginia	21,214	6,831	4,227	10,057	68	31	–	1
North Carolina	73,363	27,094	16,866	27,949	280	1,168	–	7
South Carolina	45,461	14,597	8,709	21,124	111	911	–	10
Georgia	60,465	22,827	14,869	22,156	297	225	92	–
Florida	104,735	50,440	34,021	16,872	548	2,706	13	136
South Atlantic	**412,830**	**160,678**	**107,296**	**131,094**	**2,072**	**10,882**	**480**	**328**
Kentucky	51,446	14,577	7,213	21,342	163	8,079	–	72
Tennessee	70,600	26,015	6,588	37,425	350	89	–	132
Alabama	51,375	17,457	8,077	25,533	205	34	–	70
Mississippi	25,692	10,440	5,733	9,030	134	346	–	8
East South Central	**199,113**	**68,490**	**27,611**	**93,331**	**851**	**8,548**	**–**	**283**
Arkansas	24,949	8,886	4,957	10,490	91	525	–	–
Louisiana	61,603	19,224	12,397	25,738	310	1,813	–	2,122
Oklahoma	35,822	14,323	10,203	9,357	151	1,788	–	–
Texas	210,796	68,114	51,643	85,134	948	4,584	–	372
West South Central	**333,169**	**110,547**	**79,200**	**130,719**	**1,500**	**8,709**	**–**	**2,494**
Montana	11,639	3,374	2,577	5,477	63	124	–	23
Idaho	17,197	6,409	4,331	6,387	67	4	–	–
Wyoming	9,806	1,783	2,244	5,675	23	67	–	13
Colorado	25,241	8,647	10,894	5,290	169	200	–	40
New Mexico	11,117	3,033	3,770	3,420	64	791	–	40
Arizona	30,543	11,348	10,006	8,344	203	424	26	192
Utah	13,365	3,825	3,935	4,656	74	874	–	2
Nevada	10,857	4,049	2,798	3,707	80	223	–	–
Mountain	**129,765**	**42,468**	**40,556**	**42,955**	**743**	**2,707**	**26**	**311**
Washington	79,930	27,278	15,466	34,806	473	1,863	20	24
Oregon	38,103	14,052	9,886	13,958	147	37	–	24
California	177,569	56,624	60,931	50,067	1,728	6,078	300	1,839
Pacific	**295,602**	**97,955**	**86,283**	**98,831**	**2,349**	**7,978**	**320**	**1,887**
Alaska	3,636	1,548	1,740	157	16	169	1	4
Hawaii	6,605	1,838	1,537	3,174	57	–	–	–
Alaska & Hawaii	**10,241**	**3,386**	**3,277**	**3,330**	**73**	**169**	**1**	**4**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
**Less than five hundred thousand kilowatthours.*

TABLE 41B

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1983r—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**2,159,787**	**750,293**	**545,601**	**782,984**	**13,944**	**57,267**	**4,300**	**5,398**
Maine	9,028	3,189	1,701	3,944	64	129	–	2
New Hampshire	6,391	2,607	1,229	2,464	43	47	–	*
Vermont	4,155	1,744	760	1,520	19	111	–	1
Massachusetts	35,233	12,556	12,916	8,809	367	529	56	1
Rhode Island	5,175	1,914	1,768	1,310	72	111	–	*
Connecticut	21,863	8,281	7,474	5,823	216	26	34	10
New England	**81,846**	**30,291**	**25,849**	**23,871**	**780**	**952**	**90**	**13**
New York	108,608	31,941	34,817	31,762	1,154	6,569	2,310	56
New Jersey	50,995	16,980	18,127	15,399	457	–	5	28
Pennsylvania	96,596	32,383	21,738	41,055	577	119	660	63
Middle Atlantic	**256,199**	**81,304**	**74,682**	**88,215**	**2,188**	**6,688**	**2,976**	**147**
Ohio	110,911	33,609	23,318	49,970	735	3,215	44	19
Indiana	58,007	19,913	10,896	26,578	373	198	14	36
Illinois	96,470	31,150	26,891	31,824	722	5,529	352	2
Michigan	67,510	22,032	15,385	28,212	467	1,335	–	78
Wisconsin	39,842	14,645	9,766	14,754	368	245	–	63
East North Central	**372,740**	**121,348**	**86,257**	**151,339**	**2,664**	**10,522**	**409**	**199**
Minnesota	35,698	12,883	6,182	16,038	217	359	–	19
Iowa	25,587	10,308	5,534	9,126	225	394	–	1
Missouri	43,160	18,518	13,445	9,986	293	887	16	16
North Dakota	6,353	2,836	1,378	1,647	53	436	–	3
South Dakota	5,296	2,654	1,429	896	44	272	–	*
Nebraska	15,068	6,087	4,772	3,412	129	591	18	59
Kansas	23,263	8,432	8,219	6,231	204	174	–	3
West North Central	**154,425**	**61,716**	**40,958**	**47,337**	**1,166**	**3,114**	**34**	**100**
Delaware	6,073	1,825	1,473	2,598	170	2	–	5
Maryland	36,081	13,334	8,483	13,739	231	96	129	69
District of Columbia	7,618	1,208	3,711	2,403	103	–	194	–
Virginia	52,796	21,157	13,285	12,472	258	5,526	19	79
West Virginia	19,797	6,586	4,015	9,096	67	32	–	1
North Carolina	70,639	26,253	16,014	27,076	281	1,008	–	8
South Carolina	43,423	14,120	8,321	19,990	106	877	–	10
Georgia	56,118	21,518	13,661	20,342	294	218	85	–
Florida	99,965	48,856	32,121	15,666	580	2,605	–	138
South Atlantic	**392,511**	**154,857**	**101,084**	**123,382**	**2,089**	**10,363**	**427**	**309**
Kentucky	50,604	14,094	6,619	25,533	163	4,106	–	90
Tennessee	68,217	25,170	6,595	35,926	353	95	–	78
Alabama	46,903	16,676	7,442	22,467	204	67	–	47
Mississippi	23,872	10,033	5,275	8,037	134	387	–	6
East South Central	**189,597**	**65,973**	**25,930**	**91,962**	**854**	**4,655**	**–**	**222**
Arkansas	23,608	8,725	4,676	9,589	91	509	18	–
Louisiana	54,768	16,083	10,813	23,779	314	1,748	–	2,030
Oklahoma	37,783	13,892	9,732	9,904	146	4,109	–	–
Texas	193,767	61,360	47,243	79,710	911	4,215	–	328
West South Central	**309,925**	**100,059**	**72,464**	**122,982**	**1,462**	**10,581**	**18**	**2,359**
Montana	10,074	3,108	2,436	4,326	64	126	–	14
Idaho	16,368	5,963	4,154	6,179	68	4	–	–
Wyoming	9,296	1,699	1,723	5,762	22	75	–	14
Colorado	23,261	8,132	9,966	4,702	174	248	–	39
New Mexico	10,108	2,949	3,447	2,905	64	705	–	38
Arizona	28,007	10,775	9,077	7,398	195	425	30	107
Utah	12,681	3,700	3,411	4,788	74	706	–	1
Nevada	10,064	3,722	2,305	3,737	80	218	–	3
Mountain	**119,859**	**40,048**	**36,520**	**39,796**	**742**	**2,506**	**30**	**217**
Washington	71,052	23,849	14,007	31,130	266	1,760	21	18
Oregon	35,158	13,436	9,448	12,054	152	43	–	26
California	166,840	53,759	56,058	47,543	1,507	5,895	294	1,784
Pacific	**273,050**	**91,043**	**79,513**	**90,727**	**1,926**	**7,698**	**315**	**1,828**
Alaska	3,210	1,839	916	245	16	188	1	5
Hawaii	6,426	1,815	1,427	3,127	57	–	–	–
Alaska & Hawaii	**9,636**	**3,654**	**2,343**	**3,373**	**73**	**188**	**1**	**5**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
** Less than five hundred thousand kilowatthours.*

TABLE 42A

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1984p—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,736,857**	**563,548**	**473,487**	**643,446**	**10,181**	**40,950**	**2,045**	**3,199**
Maine	9,372	3,242	2,038	3,903	59	130	—	—
New Hampshire	6,292	2,459	1,257	2,489	41	45	—	—
Vermont	3,431	1,446	672	1,192	14	106	—	—
Massachusetts	32,560	11,215	12,907	7,778	338	295	28	—
Rhode Island	5,351	1,942	1,848	1,377	72	113	—	—
Connecticut	21,787	8,236	7,686	5,573	205	—	86	—
New England	**78,793**	**28,540**	**26,408**	**22,313**	**730**	**688**	**114**	**—**
New York	95,022	31,212	35,462	25,120	436	2,697	73	22
New Jersey	51,951	16,852	19,130	15,493	446	—	5	26
Pennsylvania	98,909	31,460	22,366	43,661	537	111	708	66
Middle Atlantic	**245,882**	**79,525**	**76,957**	**84,274**	**1,419**	**2,808**	**787**	**114**
Ohio	113,025	29,736	22,612	56,933	647	3,032	46	18
Indiana	50,557	14,790	9,876	25,343	301	154	13	81
Illinois	92,804	26,893	26,300	33,035	686	5,522	366	1
Michigan	64,396	19,890	14,359	28,940	421	716	—	70
Wisconsin	34,901	11,594	9,393	13,368	301	216	—	28
East North Central	**355,684**	**102,904**	**82,540**	**157,620**	**2,355**	**9,640**	**425**	**200**
Minnesota	27,469	6,771	4,023	16,198	169	293	—	16
Iowa	19,564	6,308	4,541	8,214	186	316	—	1
Missouri	32,821	11,928	11,870	8,520	234	267	—	2
North Dakota	3,613	1,513	797	1,141	50	108	—	4
South Dakota	2,830	1,108	963	698	30	30	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	16,402	5,670	5,413	5,143	153	22	—	2
West North Central	**102,699**	**33,298**	**27,606**	**39,914**	**821**	**1,035**	**—**	**24**
Delaware	5,066	1,380	1,383	2,268	26	—	—	9
Maryland	36,356	12,827	8,357	14,719	213	11	149	80
District of Columbia	7,936	1,227	3,949	2,458	97	—	205	—
Virginia	48,844	18,427	12,760	11,730	232	5,674	21	—
West Virginia	21,129	6,781	4,200	10,049	68	31	—	1
North Carolina	55,369	18,639	13,737	21,949	215	824	—	5
South Carolina	31,863	9,066	6,580	15,713	92	402	—	10
Georgia	43,810	12,432	11,545	19,406	262	72	92	—
Florida	81,893	38,919	27,713	12,343	393	2,405	13	107
South Atlantic	**332,265**	**119,699**	**90,224**	**110,634**	**1,597**	**9,420**	**480**	**212**
Kentucky	30,087	8,136	5,405	8,366	139	8,028	—	12
Tennessee	1,258	491	233	504	4	25	—	—
Alabama	31,183	9,634	6,271	15,134	142	—	—	1
Mississippi	13,423	4,587	3,587	4,855	96	298	—	—
East South Central	**75,951**	**22,848**	**15,497**	**28,859**	**382**	**8,351**	**—**	**13**
Arkansas	18,450	5,496	3,831	8,603	81	438	—	—
Louisiana	53,914	14,814	9,936	25,107	283	1,652	—	2,122
Oklahoma	27,058	9,786	7,259	8,207	134	1,671	—	—
Texas	172,507	51,171	41,284	75,994	747	3,310	—	1
West South Central	**271,929**	**81,268**	**62,311**	**117,911**	**1,245**	**7,072**	**—**	**2,123**
Montana	7,040	2,254	1,946	2,698	61	66	—	15
Idaho	14,164	4,757	3,598	5,779	28	2	—	—
Wyoming	6,811	1,072	1,075	4,622	21	8	—	13
Colorado	16,699	5,168	8,243	3,046	139	101	—	2
New Mexico	8,035	2,212	2,581	2,649	57	499	—	38
Arizona	16,685	6,081	5,640	4,682	88	141	—	54
Utah	10,343	2,942	2,584	4,274	50	494	—	*
Nevada	9,525	3,820	2,559	2,849	80	217	—	—
Mountain	**89,302**	**28,305**	**28,224**	**30,599**	**523**	**1,527**	**—**	**123**
Washington	21,397	11,199	6,400	3,711	86	—	—	—
Oregon	24,740	10,385	7,497	6,714	131	6	—	8
California	131,392	43,624	48,219	37,697	833	398	239	382
Pacific	**177,530**	**65,208**	**62,117**	**48,121**	**1,050**	**404**	**239**	**390**
Alaska	218	116	68	27	1	5	1	—
Hawaii	6,605	1,838	1,537	3,174	57	—	—	—
Alaska & Hawaii	**6,823**	**1,953**	**1,604**	**3,201**	**58**	**5**	**1**	**—**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
** Less than five hundred thousand kilowatthours.*

TABLE 42B

ENERGY SALES
INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1983r—KILOWATTHOURS IN MILLIONS

Division/State	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**1,640,375**	**546,080**	**445,300**	**597,405**	**10,445**	**36,396**	**1,929**	**2,820**
Maine	8,773	3,063	1,664	3,862	60	124	–	–
New Hampshire	5,932	2,328	1,149	2,367	42	45	–	–
Vermont	3,362	1,340	631	1,276	14	102	–	–
Massachusetts	30,653	10,743	12,011	7,216	333	295	56	–
Rhode Island	5,153	1,900	1,765	1,305	72	111	–	–
Connecticut	20,800	8,021	7,278	5,261	207	–	34	–
New England	**74,673**	**27,394**	**24,499**	**21,286**	**728**	**677**	**90**	–
New York	92,559	30,819	34,210	24,326	627	2,443	104	30
New Jersey	50,265	16,615	18,001	15,163	454	–	5	28
Pennsylvania	93,866	30,591	21,245	40,654	548	105	660	63
Middle Atlantic	**236,690**	**78,025**	**73,456**	**80,142**	**1,629**	**2,548**	**770**	**121**
Ohio	102,634	29,487	21,877	47,636	639	2,932	44	19
Indiana	48,573	14,566	9,356	24,148	308	146	14	36
Illinois	89,771	27,571	24,944	30,984	694	5,223	352	2
Michigan	61,697	19,926	13,790	26,771	423	710	–	76
Wisconsin	33,476	11,538	8,967	12,404	324	216	–	27
East North Central	**336,150**	**103,088**	**78,934**	**141,944**	**2,388**	**9,228**	**409**	**159**
Minnesota	25,395	6,803	3,794	14,322	169	292	–	14
Iowa	19,447	6,702	4,482	7,757	186	318	–	1
Missouri	31,780	12,140	11,042	7,962	238	391	–	6
North Dakota	3,467	1,473	762	1,075	51	103	–	3
South Dakota	2,762	1,120	926	655	30	30	–	*
Nebraska	–	–	–	–	–	–	–	–
Kansas	15,859	5,769	5,272	4,643	153	20	–	2
West North Central	**98,708**	**34,007**	**26,279**	**36,414**	**827**	**1,155**	–	**26**
Delaware	4,868	1,327	1,233	2,278	25	–	–	5
Maryland	34,170	12,255	7,919	13,572	213	12	129	69
District of Columbia	7,618	1,208	3,711	2,403	103	–	194	–
Virginia	46,739	17,813	12,052	11,192	219	5,443	19	–
West Virginia	19,714	6,538	3,987	9,090	67	32	–	1
North Carolina	53,262	18,190	13,129	21,049	216	671	–	6
South Carolina	30,712	8,846	6,254	15,131	87	385	–	10
Georgia	41,423	12,288	10,800	17,924	259	68	85	–
Florida	77,974	37,762	26,005	11,377	409	2,308	–	113
South Atlantic	**316,480**	**116,226**	**85,090**	**104,016**	**1,599**	**8,919**	**427**	**204**
Kentucky	25,064	8,013	5,096	7,753	139	4,048	–	14
Tennessee	1,146	492	224	401	4	26	–	–
Alabama	28,820	9,176	5,817	13,688	138	–	–	1
Mississippi	12,712	4,422	3,414	4,452	96	328	–	–
East South Central	**67,742**	**22,103**	**14,551**	**26,294**	**377**	**4,402**	–	**15**
Arkansas	17,264	5,410	3,634	7,715	80	425	–	–
Louisiana	50,188	13,954	9,107	23,226	287	1,583	–	2,030
Oklahoma	25,960	9,469	6,879	7,845	130	1,638	–	–
Texas	158,805	46,090	38,024	70,857	712	3,121	–	*
West South Central	**252,218**	**74,924**	**57,644**	**109,643**	**1,209**	**6,767**	–	**2,030**
Montana	6,758	2,075	1,882	2,663	63	65	–	11
Idaho	13,506	4,344	3,426	5,704	30	2	–	–
Wyoming	6,435	1,025	1,025	4,343	19	10	–	13
Colorado	15,402	4,877	7,646	2,627	144	105	–	2
New Mexico	7,196	2,060	2,396	2,159	57	488	–	35
Arizona	15,822	5,738	5,343	4,471	87	139	–	42
Utah	9,909	2,850	2,443	4,101	51	465	–	*
Nevada	8,757	3,443	2,079	2,946	79	211	–	–
Mountain	**83,785**	**26,412**	**26,241**	**29,015**	**530**	**1,484**	–	**103**
Washington	20,138	10,626	5,943	3,476	92	–	–	–
Oregon	23,799	9,960	7,144	6,546	134	7	–	8
California	123,340	41,403	44,031	35,480	874	1,167	232	153
Pacific	**167,276**	**61,989**	**57,118**	**45,502**	**1,100**	**1,174**	**232**	**161**
Alaska	227	97	62	23	1	42	1	–
Hawaii	6,426	1,815	1,427	3,127	57	–	–	–
Alaska & Hawaii	**6,653**	**1,912**	**1,489**	**3,150**	**59**	**42**	**1**	–

Note: Total may not equal sum of components due to independent rounding.
r Revised.
** Less than five hundred thousand kilowatthours.*

TABLE 43

ENERGY SALES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1979-1984—KILOWATTHOURS IN MILLIONS

Year—Quarter	Total to Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
YEAR—1984p								
First Quarter	586,714	217,551	142,610	205,024	3,700	15,291	1,220	1,317
Second Quarter	538,524	170,095	136,901	210,532	3,473	14,969	1,065	1,487
Third Quarter	611,946	212,186	162,571	215,496	3,344	15,694	1,074	1,581
Fourth Quarter	548,348	180,847	141,339	204,936	3,612	15,075	1,129	1,410
Total	**2,285,532**	**780,679**	**583,422**	**835,989**	**14,130**	**61,029**	**4,488**	**5,795**
YEAR—1983r								
First Quarter	525,257	193,693	128,741	182,262	3,706	14,282	1,145	1,427
Second Quarter	494,569	159,651	126,364	190,063	3,186	13,050	991	1,262
Third Quarter	606,460	221,371	157,015	208,157	3,349	14,044	1,052	1,471
Fourth Quarter	533,502	175,578	133,481	202,503	3,702	15,890	1,112	1,237
Total	**2,159,787**	**750,293**	**545,601**	**782,984**	**13,944**	**57,267**	**4,300**	**5,398**
YEAR—1982								
First Quarter	545,490	200,830	128,103	196,143	3,848	14,074	1,089	1,402
Second Quarter	495,898	161,985	122,258	192,608	3,247	13,575	1,018	1,207
Third Quarter	553,878	197,261	141,352	195,161	3,383	14,068	1,174	1,479
Fourth Quarter	504,474	172,601	125,245	186,486	3,757	14,027	1,006	1,350
Total	**2,099,741**	**732,678**	**516,959**	**770,398**	**14,236**	**55,745**	**4,288**	**5,438**
YEAR—1981								
First Quarter	542,678	195,398	125,692	201,897	4,032	13,161	1,091	1,407
Second Quarter	508,314	159,571	123,517	206,284	3,334	13,135	1,017	1,456
Third Quarter	585,219	204,863	146,610	213,451	3,425	14,049	1,029	1,792
Fourth Quarter	514,463	170,647	125,879	198,009	3,892	13,392	1,069	1,575
Total	**2,150,674**	**730,479**	**521,698**	**819,641**	**14,683**	**53,737**	**4,206**	**6,230**
YEAR—1980								
First Quarter	541,213	195,081	127,121	200,014	3,924	12,401	1,102	1,570
Second Quarter	496,515	159,354	122,714	196,865	3,488	11,478	1,039	1,577
Third Quarter	570,696	208,225	146,316	197,511	3,493	12,499	1,049	1,603
Fourth Quarter	517,670	171,751	127,971	199,422	3,927	11,906	1,085	1,608
Total	**2,126,094**	**734,411**	**524,122**	**793,812**	**14,832**	**48,284**	**4,275**	**6,358**
YEAR—1979								
First Quarter	539,686	196,958	123,465	200,043	3,875	12,276	1,145	1,924
Second Quarter	496,338	153,062	117,830	207,124	3,465	11,764	1,044	2,049
Third Quarter	544,573	182,962	134,083	208,099	3,499	13,116	1,028	1,786
Fourth Quarter	503,803	163,014	119,345	202,351	3,953	12,448	1,039	1,653
Total	**2,084,400**	**695,996**	**494,723**	**817,617**	**14,792**	**49,604**	**4,256**	**7,412**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary. *r Revised.*

TABLE 44

AVERAGE ANNUAL KWH USE PER CUSTOMER

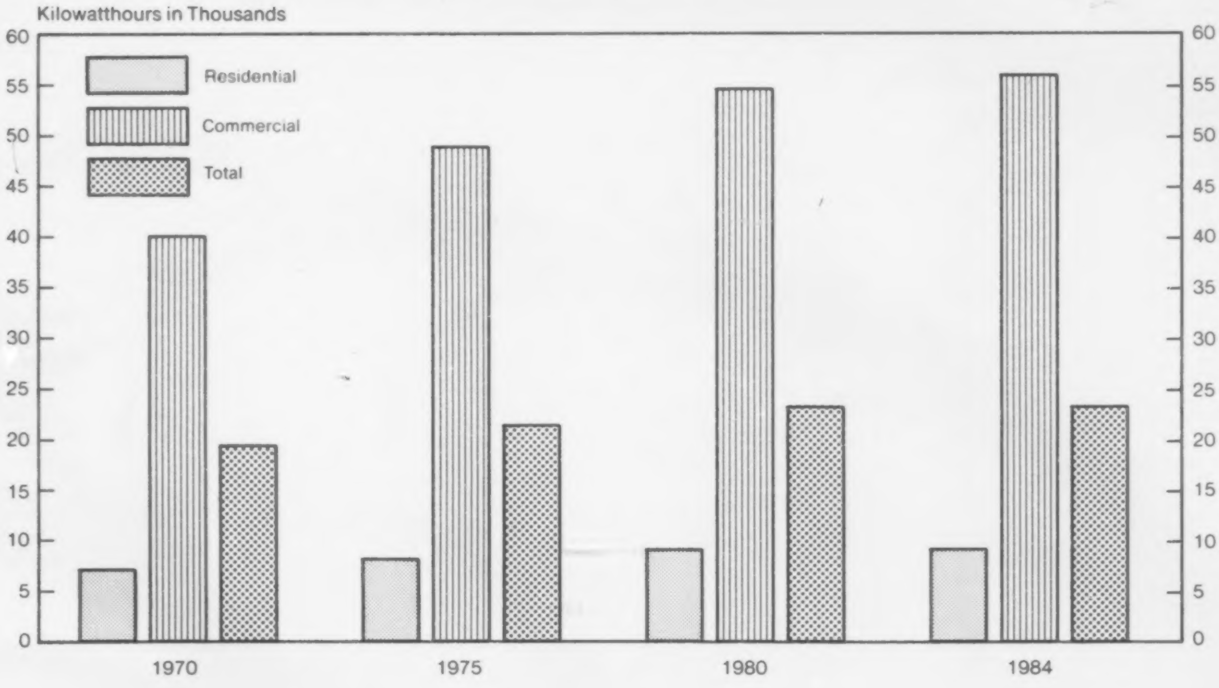
TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Residential	Commercial	Total Ultimate Customers	Year	Residential	Commercial	Total Ultimate Customers
1984p	**8,993**	**55,915**	**23,295**	**1984p**	**8,495**	**59,185**	**23,162**
1983r	8,814	53,822	22,479	1983r	8,379	57,003	22,293
1982	8,743	52,260	22,197	1982	8,261	56,379	21,940
1981	8,825	53,402	23,026	1981	8,311	55,742	22,753
1980	9,025	54,538	23,167	1980	8,539	55,210	22,949
1979	8,843	53,197	23,481	1979	8,360	54,594	23,287
1978	8,849	53,085	23,315	1978	8,430	54,653	23,197
1977	8,693	52,892	23,052	1977	8,279	54,520	22,938
1976	8,360	50,733	22,361	1976	7,969	52,560	22,263
1975	8,176	48,964	21,417	1975	7,855	50,966	21,305
1974	7,907	46,557	21,448	1974	7,574	48,426	21,343
1973	8,079	47,580	21,955	1973	7,769	49,550	21,989
1972	7,691	44,496	20,964	1972	7,413	46,565	21,002
1971	7,380	41,943	19,956	1971	7,062	43,596	19,917
1970	7,066	39,952	19,380	1970	6,720	41,272	19,167
1969	6,571	36,950	18,563	1969	6,253	38,025	18,305
1968	6,057	34,637	17,445	1968	5,727	35,549	17,159
1967	5,577	32,041	16,384	1967	5,241	32,492	15,930
1966	5,265	30,133	15,678	1966	4,962	30,671	15,287
1965	4,933	27,399	14,694	1965	4,647	27,958	14,347
1964	4,703	25,213	14,015	1964	4,416	25,518	13,628

Based on sales data in Tables 38 and 39, page 43, and average number of customers per year. p Preliminary. r Revised.

CHART VI-D

AVERAGE KILOWATTHOURS USED

TOTAL ELECTRIC UTILITY INDUSTRY



Based on Table 44, as shown above.

CUSTOMERS

SECTION VII

TABLE 47

ULTIMATE CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1984p	**98,939,668**	**87,537,592**	**10,513,211**	**508,717**	**154,253**	**222,917**	**30**	**2,948**
1983r	96,985,531	85,842,195	10,266,449	500,215	153,659	219,879	31	3,103
1982	95,250,268	84,371,779	9,976,274	533,635	148,678	216,975	31	2,896
1981	94,011,299	83,304,355	9,847,260	516,996	141,051	197,187	31	4,419
1980	92,653,471	82,153,162	9,698,809	484,652	142,724	168,120	30	5,974
1979	89,771,985	79,620,180	9,386,572	477,874	124,228	158,098	30	5,003
1978	87,667,954	77,775,667	9,148,399	464,637	121,899	152,439	30	4,883
1977	85,590,212	75,923,145	8,943,732	448,009	120,594	149,934	28	4,770
1976	83,613,161	74,161,846	8,750,949	427,403	119,130	148,867	28	4,938
1975	81,844,890	72,570,187	8,591,108	414,665	116,555	147,387	29	4,959
1974	80,102,390	70,949,607	8,472,817	422,736	112,477	139,480	29	5,244
1973	78,461,251	69,438,429	8,361,847	413,383	108,787	133,619	46	5,140
1972	76,150,204	67,314,000	8,200,033	369,952	103,874	157,461	50	4,834
1971	74,265,071	65,650,046	8,002,572	355,967	96,252	155,414	48	4,772
1970	72,484,978	64,017,662	7,865,073	352,993	92,052	152,706	47	4,445
1969	70,929,138	62,598,910	7,744,851	348,648	86,678	145,071	49	4,931
1968	69,716,013	61,439,030	7,706,779	333,650	86,023	146,257	64	4,210
1967	68,167,525	60,033,404	7,579,626	324,222	82,445	143,870	65	3,893
1966	66,909,793	58,826,283	7,536,066	316,098	85,197	141,703	65	4,381
1965	65,557,520	57,596,016	7,419,956	309,615	84,925	141,532	66	5,410
1964	64,148,656	56,307,195	7,293,997	318,168	83,729	139,549	83	5,935

**Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*

p Preliminary. *r Revised.*

TABLE 48

ULTIMATE CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Total Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1984p	**75,731,928**	**67,005,799**	**8,075,117**	**396,105**	**113,566**	**140,854**	**23**	**464**
1983r	74,247,765	65,718,130	7,886,857	387,875	115,170	139,233	23	477
1982	72,979,298	64,648,932	7,702,142	378,016	113,251	136,484	23	450
1981	72,037,264	63,820,699	7,579,344	389,646	112,061	135,049	23	442
1980	70,996,563	62,902,588	7,459,959	375,540	123,589	134,595	23	269
1979	69,581,540	61,676,402	7,290,125	372,407	108,149	134,171	23	263
1978	67,922,975	60,216,110	7,106,705	364,123	106,286	129,496	23	232
1977	66,294,706	58,770,646	6,942,201	349,563	105,442	126,611	21	222
1976	64,896,400	57,530,599	6,805,345	329,522	103,754	126,674	22	484
1975	63,650,468	56,409,122	6,690,374	322,429	101,937	126,100	23	483
1974	62,667,061	55,499,145	6,624,061	326,409	97,438	119,531	23	454
1973	61,435,986	54,370,297	6,531,953	324,236	94,682	114,315	24	479
1972	59,804,431	52,868,920	6,422,032	284,733	90,206	138,052	25	463
1971	58,204,164	51,415,155	6,294,907	274,329	86,714	132,573	25	461
1970	56,888,819	50,210,348	6,194,383	270,132	83,443	130,036	24	453
1969	55,714,225	49,134,168	6,111,945	265,331	78,903	123,399	25	454
1968	54,680,477	48,140,270	6,078,790	258,848	78,950	123,136	40	443
1967	53,560,415	47,115,644	5,994,228	255,375	75,419	119,263	41	445
1966	52,567,765	46,151,524	5,981,208	248,267	71,394	114,918	41	413
1965	51,505,592	45,166,904	5,911,683	242,818	68,421	115,303	43	420
1964	50,405,817	44,157,062	5,818,820	250,755	65,684	113,031	60	405

** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 49

CUSTOMERS IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE AT DECEMBER 31st

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways*	Inter-departmental*
1984p	**88.5%**	**10.6%**	**0.5%**	**0.2%**	**0.2%**	**0.0%**	**0.0%**
1983r	88.5	10.6	0.5	0.2	0.2	0.0	0.0
1982	88.6	10.5	0.6	0.1	0.2	0.0	0.0
1981	88.6	10.5	0.5	0.2	0.2	0.0	0.0
1980	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1979	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1978	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1977	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1976	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1975	88.7	10.5	0.5	0.1	0.2	0.0	0.0
1974	88.6	10.6	0.5	0.1	0.2	0.0	0.0
1973	88.5	10.7	0.5	0.1	0.2	0.0	0.0
1972	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1971	88.4	10.8	0.5	0.1	0.2	0.0	0.0
1970	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1969	88.3	10.9	0.5	0.1	0.2	0.0	0.0
1968	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1967	88.1	11.1	0.5	0.1	0.2	0.0	0.0
1966	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1965	87.9	11.3	0.5	0.1	0.2	0.0	0.0
1964	87.8	11.4	0.5	0.1	0.2	0.0	0.0

** Less than one tenth of one percent. p Preliminary. r Revised.*
Based on customer data in Table 47.

TABLE 50A

ULTIMATE CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1984p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**98,939,668**	**87,537,592**	**10,513,211**	**508,717**	**154,253**	**222,917**	**30**	**2,948**
Maine	559,500	496,210	59,459	2,431	1,068	315	–	17
New Hampshire	456,783	398,256	53,182	1,620	1,238	2,486	–	1
Vermont	256,117	225,274	27,065	1,073	281	2,418	–	6
Massachusetts	2,344,575	2,092,875	228,939	11,242	6,934	4,557	–	28
Rhode Island	391,577	351,683	36,583	2,502	806	2	–	1
Connecticut	1,301,304	1,186,394	106,032	4,824	3,727	274	1	52
New England	**5,309,856**	**4,750,692**	**511,260**	**23,692**	**14,054**	**10,052**	**1**	**105**
New York	6,642,720	5,900,523	674,676	47,145	5,518	14,849	5	4
New Jersey	2,982,048	2,632,164	330,282	12,468	7,132	–	1	1
Pennsylvania	4,847,474	4,341,382	468,866	29,713	6,270	1,237	4	2
Middle Atlantic	**14,472,242**	**12,874,069**	**1,473,824**	**89,326**	**18,920**	**16,086**	**10**	**7**
Ohio	4,400,225	3,965,473	389,284	28,111	6,399	10,936	2	20
Indiana	2,289,886	2,052,199	214,171	18,830	2,688	1,995	1	2
Illinois	4,575,980	4,151,060	404,707	5,456	2,653	12,099	2	3
Michigan	3,741,713	3,391,867	330,427	13,303	2,199	3,913	–	4
Wisconsin	2,080,371	1,868,285	202,912	4,709	3,148	1,280	–	37
East North Central	**17,088,175**	**15,428,884**	**1,541,501**	**70,409**	**17,087**	**30,223**	**5**	**66**
Minnesota	1,780,851	1,597,237	169,260	7,097	2,720	4,523	–	14
Iowa	1,276,646	1,114,149	150,642	4,293	999	6,562	–	1
Missouri	2,176,980	1,940,977	216,149	10,970	2,378	6,442	1	63
North Dakota	302,886	257,735	41,013	2,344	424	1,367	–	3
South Dakota	311,772	269,911	38,682	1,413	335	1,431	–	–
Nebraska	768,684	636,102	123,269	1,705	608	6,995	1	4
Kansas	1,130,554	965,028	152,029	10,255	1,314	1,907	–	21
West North Central	**7,748,373**	**6,781,139**	**891,044**	**38,077**	**8,778**	**29,227**	**2**	**106**
Delaware	258,645	235,679	21,840	614	179	332	–	1
Maryland	1,646,128	1,488,965	151,399	4,893	759	109	2	1
District of Columbia	204,604	179,697	24,706	165	35	–	1	–
Virginia	2,234,924	2,000,735	205,620	3,974	1,730	22,863	1	1
West Virginia	824,558	726,908	86,267	9,924	1,136	318	–	5
North Carolina	2,728,383	2,384,275	318,943	12,719	7,481	4,945	–	20
South Carolina	1,403,442	1,233,500	159,506	4,057	2,598	3,765	–	16
Georgia	2,413,798	2,167,668	224,170	14,082	2,032	5,845	1	–
Florida	5,428,391	4,822,092	569,945	20,893	4,370	11,085	1	5
South Atlantic	**17,142,873**	**15,239,519**	**1,762,396**	**71,321**	**20,320**	**49,262**	**6**	**49**
Kentucky	1,515,295	1,340,798	153,953	7,132	4,593	8,809	–	10
Tennessee	2,016,668	1,793,894	205,054	15,338	589	1,773	–	20
Alabama	1,699,327	1,499,955	187,674	8,312	760	2,558	–	68
Mississippi	1,062,805	928,429	123,835	5,964	503	4,073	–	1
East South Central	**6,294,095**	**5,563,076**	**670,516**	**36,746**	**6,445**	**17,213**	**–**	**99**
Arkansas	1,056,062	925,500	108,405	15,998	563	5,596	–	–
Louisiana	1,815,871	1,601,781	184,467	17,399	2,364	9,858	–	2
Oklahoma	1,551,563	1,344,309	181,823	14,395	1,150	9,886	–	–
Texas	6,889,846	5,961,569	834,201	62,601	3,906	27,444	–	125
West South Central	**11,313,342**	**9,833,159**	**1,308,896**	**110,393**	**7,983**	**52,784**	**–**	**127**
Montana	396,907	335,369	56,480	2,621	1,725	467	–	245
Idaho	454,421	385,154	66,956	1,681	563	67	–	–
Wyoming	242,183	199,076	39,420	3,107	188	383	–	9
Colorado	1,470,701	1,280,053	187,865	627	667	1,170	–	319
New Mexico	600,428	511,484	82,703	5,031	189	941	–	80
Arizona	1,312,902	1,158,620	136,866	5,194	9,987	1,967	1	267
Utah	570,703	509,336	50,814	8,085	2,199	253	–	16
Nevada	416,353	361,118	53,912	752	137	434	–	–
Mountain	**5,464,598**	**4,740,210**	**675,016**	**27,098**	**15,655**	**5,682**	**1**	**936**
Washington	1,917,580	1,699,847	200,979	5,786	7,674	3,278	1	15
Oregon	1,209,481	1,055,106	150,811	1,841	1,184	533	–	6
California	10,384,530	9,054,686	1,256,189	33,285	33,588	5,414	3	1,365
Pacific	**13,511,591**	**11,809,639**	**1,607,979**	**40,912**	**42,446**	**9,225**	**4**	**1,386**
Alaska	270,139	236,687	29,162	–	1,059	3,163	1	67
Hawaii	324,384	280,518	41,617	743	1,506	–	–	–
Alaska & Hawaii	**594,523**	**517,205**	**70,779**	**743**	**2,565**	**3,163**	**1**	**67**

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TABLE 50B

ULTIMATE CUSTOMERS
TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1983r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**96,985,531**	**85,842,195**	**10,266,449**	**500,215**	**153,659**	**219,879**	**31**	**3,103**
Maine	546,888	485,515	57,562	2,410	1,068	316	—	17
New Hampshire	440,103	384,520	50,200	1,583	1,243	2,556	—	1
Vermont	249,631	220,619	25,270	1,065	280	2,391	—	6
Massachusetts	2,297,963	2,055,110	220,572	11,029	6,722	4,502	1	27
Rhode Island	386,357	347,537	35,516	2,487	802	14	—	1
Connecticut	1,278,425	1,165,917	103,661	4,794	3,724	275	1	53
New England	**5,199,367**	**4,659,218**	**492,781**	**23,368**	**13,839**	**10,054**	**2**	**105**
New York	6,582,566	5,844,046	667,330	46,629	9,491	15,061	5	4
New Jersey	2,936,924	2,593,174	324,301	12,487	6,960	—	1	1
Pennsylvania	4,797,860	4,298,794	461,739	29,811	6,254	1,257	4	1
Middle Atlantic	**14,317,350**	**12,736,014**	**1,453,370**	**88,927**	**22,705**	**16,318**	**10**	**6**
Ohio	4,368,271	3,937,562	386,970	26,500	6,384	10,833	2	20
Indiana	2,270,347	2,035,351	211,980	18,553	2,590	1,870	1	2
Illinois	4,548,935	4,128,484	400,172	5,465	2,624	12,186	2	2
Michigan	3,715,330	3,370,366	325,774	13,115	2,181	3,891	—	3
Wisconsin	2,056,100	1,847,154	199,835	4,655	3,139	1,280	—	37
East North Central	**16,958,983**	**15,318,917**	**1,524,731**	**68,288**	**16,918**	**30,060**	**5**	**64**
Minnesota	1,749,919	1,570,040	165,822	6,919	2,612	4,512	—	14
Iowa	1,279,021	1,117,100	149,441	4,735	1,014	6,730	—	1
Missouri	2,158,272	1,917,625	219,927	9,282	2,522	8,846	1	69
North Dakota	299,852	255,029	40,718	2,302	425	1,375	—	3
South Dakota	310,722	269,018	38,576	1,331	335	1,461	—	1
Nebraska	765,104	632,820	123,331	1,718	610	6,621	1	3
Kansas	1,107,313	945,247	149,386	9,601	1,244	1,814	—	21
West North Central	**7,670,203**	**6,706,879**	**887,201**	**35,888**	**8,762**	**31,359**	**2**	**112**
Delaware	253,662	231,355	21,358	585	127	236	—	1
Maryland	1,599,592	1,447,222	147,408	4,129	718	112	2	1
District of Columbia	203,276	178,507	24,568	166	34	—	1	—
Virginia	2,169,684	1,944,956	197,213	3,872	1,722	21,919	1	1
West Virginia	818,483	723,116	84,456	9,465	1,120	321	—	5
North Carolina	2,644,007	2,312,497	307,323	12,466	6,978	4,712	—	31
South Carolina	1,365,630	1,201,565	153,731	4,066	2,542	3,711	—	15
Georgia	2,339,298	2,103,116	214,670	13,893	1,960	5,658	1	—
Florida	5,269,507	4,688,593	546,130	19,924	4,218	10,638	—	4
South Atlantic	**16,663,139**	**14,830,927**	**1,696,857**	**68,566**	**19,419**	**47,307**	**5**	**58**
Kentucky	1,491,247	1,321,101	150,024	7,008	4,424	8,680	—	10
Tennessee	1,971,269	1,756,779	197,618	14,590	544	1,718	—	20
Alabama	1,664,660	1,471,151	182,244	7,939	751	2,518	—	57
Mississippi	1,043,896	913,853	119,928	5,668	502	3,944	—	1
East South Central	**6,171,072**	**5,462,884**	**649,814**	**35,205**	**6,221**	**16,860**	**—**	**88**
Arkansas	1,036,297	908,891	106,094	15,410	549	5,352	1	—
Louisiana	1,781,816	1,573,858	178,073	17,930	2,326	9,627	—	2
Oklahoma	1,515,731	1,315,942	175,047	13,927	1,133	9,682	—	—
Texas	6,572,407	5,679,266	803,398	60,198	3,466	25,847	—	232
West South Central	**10,906,251**	**9,477,957**	**1,262,612**	**107,465**	**7,474**	**50,508**	**1**	**234**
Montana	391,088	330,973	55,113	2,659	1,649	455	—	239
Idaho	447,991	380,369	65,212	1,785	561	64	—	—
Wyoming	241,788	198,930	39,111	3,156	190	392	—	9
Colorado	1,420,131	1,235,792	178,622	3,549	647	1,199	—	322
New Mexico	578,163	492,756	79,434	4,816	187	893	—	77
Arizona	1,231,266	1,083,924	129,901	5,336	10,174	1,666	1	264
Utah	555,875	496,324	49,315	7,904	2,077	240	—	15
Nevada	398,631	346,424	51,084	550	137	434	—	2
Mountain	**5,264,933**	**4,565,492**	**647,792**	**29,755**	**15,622**	**5,343**	**1**	**928**
Washington	1,983,785	1,763,298	205,645	5,940	6,028	2,825	1	48
Oregon	1,204,030	1,051,993	148,473	1,778	1,230	547	—	9
California	10,143,017	8,835,341	1,233,958	33,886	32,894	5,551	3	1,384
Pacific	**13,330,832**	**11,650,632**	**1,588,076**	**41,604**	**40,152**	**8,923**	**4**	**1,441**
Alaska	183,952	157,081	22,192	409	1,055	3,147	1	67
Hawaii	319,449	276,194	41,023	740	1,492	—	—	—
Alaska & Hawaii	**503,401**	**433,275**	**63,215**	**1,149**	**2,547**	**3,147**	**1**	**67**

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TABLE 51A

ULTIMATE CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE AT DECEMBER 31, 1984p

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**75,731,928**	**67,005,799**	**8,075,117**	**396,105**	**113,566**	**140,854**	**23**	**464**
Maine	534,110	474,024	56,662	2,307	1,031	86	—	—
New Hampshire	399,455	349,159	47,138	1,418	1,235	505	—	—
Vermont	198,613	174,643	20,835	688	265	2,182	—	—
Massachusetts	2,047,473	1,828,995	203,765	7,937	4,530	2,246	—	—
Rhode Island	388,451	348,793	36,365	2,486	805	2	—	—
Connecticut	1,243,848	1,135,695	99,852	4,677	3,623	—	1	—
New England	**4,811,950**	**4,311,309**	**464,617**	**19,513**	**11,489**	**5,021**	**1**	**—**
New York	6,497,141	5,771,545	659,692	46,104	5,349	14,445	4	2
New Jersey	2,933,433	2,588,380	325,613	12,336	7,102	—	1	1
Pennsylvania	4,619,511	4,129,817	453,939	29,331	5,945	473	4	2
Middle Atlantic	**14,050,085**	**12,489,742**	**1,439,244**	**87,771**	**18,396**	**14,918**	**9**	**5**
Ohio	3,894,072	3,505,776	348,135	25,249	5,556	9,334	2	20
Indiana	1,735,237	1,540,841	174,720	16,413	2,365	931	1	2
Illinois	4,203,274	3,807,626	377,894	4,786	2,562	10,401	2	3
Michigan	3,361,379	3,044,989	301,185	11,528	2,129	1,545	—	3
Wisconsin	1,722,597	1,541,472	175,066	2,401	3,015	621	—	22
East North Central	**14,916,595**	**13,440,704**	**1,377,000**	**60,377**	**15,627**	**22,832**	**5**	**50**
Minnesota	1,086,062	959,878	115,838	5,352	2,054	2,938	—	2
Iowa	926,366	797,186	121,125	2,427	836	4,791	—	1
Missouri	1,460,793	1,288,494	159,657	7,667	2,025	2,910	—	40
North Dakota	195,032	164,460	28,220	1,380	395	575	—	2
South Dakota	166,617	140,820	24,788	413	280	316	—	—
Nebraska	—	—	—	—	—	—	—	—
Kansas	730,781	642,452	79,347	7,842	933	194	—	13
West North Central	**4,565,651**	**3,993,290**	**528,975**	**25,081**	**6,523**	**11,724**	**—**	**58**
Delaware	190,713	172,679	17,417	451	165	—	—	1
Maryland	1,522,772	1,376,360	140,965	4,658	746	40	2	1
District of Columbia	204,604	179,697	24,706	165	35	—	1	—
Virginia	1,870,428	1,671,262	173,542	3,340	1,692	20,591	1	—
West Virginia	816,487	719,906	85,274	9,910	1,086	306	—	5
North Carolina	1,853,940	1,594,911	241,645	9,744	6,147	1,476	—	17
South Carolina	871,091	748,187	115,850	3,315	2,215	1,508	—	16
Georgia	1,449,968	1,276,036	159,233	12,314	1,810	574	1	—
Florida	4,153,325	3,698,106	423,720	18,388	3,928	9,178	1	4
South Atlantic	**12,933,328**	**11,437,144**	**1,382,352**	**62,285**	**17,824**	**33,673**	**6**	**44**
Kentucky	895,951	776,751	103,374	4,391	4,129	7,304	—	2
Tennessee	35,347	31,616	3,451	119	120	41	—	—
Alabama	1,033,899	905,239	123,561	4,467	631	—	—	1
Mississippi	491,625	419,432	65,694	3,735	449	2,315	—	—
East South Central	**2,456,822**	**2,133,038**	**296,080**	**12,712**	**5,329**	**9,660**	**—**	**3**
Arkansas	659,576	569,087	71,397	15,337	496	3,259	—	—
Louisiana	1,376,705	1,209,462	141,196	15,775	2,152	8,118	—	2
Oklahoma	1,051,979	915,273	114,525	12,637	1,084	8,460	—	—
Texas	4,928,718	4,270,169	582,171	53,295	2,913	20,169	—	1
West South Central	**8,016,978**	**6,963,991**	**909,289**	**97,044**	**6,645**	**40,006**	**—**	**3**
Montana	292,844	247,642	40,666	2,465	1,709	133	—	229
Idaho	371,367	314,174	55,123	1,516	510	44	—	—
Wyoming	155,809	130,840	22,625	2,097	165	78	—	4
Colorado	958,260	845,318	112,038	80	502	299	—	23
New Mexico	415,499	363,029	47,435	4,184	83	748	—	20
Arizona	760,514	668,511	85,859	4,172	741	1,230	—	1
Utah	438,594	393,773	36,376	6,866	1,531	45	—	3
Nevada	386,802	337,774	48,436	450	128	14	—	—
Mountain	**3,779,689**	**3,301,061**	**448,558**	**21,830**	**5,369**	**2,591**	**—**	**280**
Washington	872,451	779,884	88,203	2,951	1,413	—	—	—
Oregon	946,220	826,166	117,572	1,350	1,060	69	—	3
California	8,038,505	7,032,527	979,281	4,448	22,187	43	1	18
Pacific	**9,857,176**	**8,638,577**	**1,185,056**	**8,749**	**24,660**	**112**	**1**	**21**
Alaska	19,270	16,425	2,329	—	198	317	1	—
Hawaii	324,384	280,518	41,617	743	1,506	—	—	—
Alaska & Hawaii	**343,654**	**296,943**	**43,946**	**743**	**1,704**	**317**	**1**	**—**

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TABLE 51B

ULTIMATE CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
AT DECEMBER 31, 1983r

Division/State	Total Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**74,247,765**	**65,718,130**	**7,886,857**	**387,875**	**115,170**	**139,233**	**23**	**477**
Maine	522,067	463,807	54,855	2,287	1,031	87	—	—
New Hampshire	384,772	337,116	44,495	1,386	1,240	535	—	—
Vermont	193,592	171,034	19,453	683	264	2,158	—	—
Massachusetts	2,006,638	1,795,941	196,304	7,783	4,374	2,235	1	—
Rhode Island	383,272	344,681	35,305	2,471	801	14	—	—
Connecticut	1,222,059	1,116,157	97,637	4,644	3,620	—	1	—
New England	**4,712,400**	**4,228,736**	**448,049**	**19,254**	**11,330**	**5,029**	**2**	**—**
New York	6,438,047	5,716,085	652,460	45,593	9,289	14,614	4	2
New Jersey	2,888,909	2,550,055	319,568	12,353	6,931	—	1	1
Pennsylvania	4,572,198	4,089,304	447,039	29,428	5,929	493	4	1
Middle Atlantic	**13,899,154**	**12,355,444**	**1,419,067**	**87,374**	**22,149**	**15,107**	**9**	**4**
Ohio	3,865,780	3,481,101	346,066	23,802	5,547	9,242	2	20
Indiana	1,720,438	1,528,139	172,875	16,172	2,344	905	1	2
Illinois	4,180,773	3,789,294	373,667	4,794	2,536	10,478	2	2
Michigan	3,337,544	3,025,519	297,010	11,362	2,112	1,539	—	2
Wisconsin	1,702,251	1,523,868	172,368	2,372	3,006	615	—	22
East North Central	**14,806,786**	**13,347,921**	**1,361,986**	**58,502**	**15,545**	**22,779**	**5**	**48**
Minnesota	1,067,272	943,690	113,451	5,218	1,958	2,953	—	2
Iowa	927,897	799,297	120,159	2,677	847	4,916	—	1
Missouri	1,449,382	1,273,350	163,062	6,342	2,130	4,453	—	45
North Dakota	193,082	162,733	28,017	1,355	396	579	—	2
South Dakota	166,070	140,354	24,720	389	279	327	—	1
Nebraska	—	—	—	—	—	—	—	—
Kansas	714,798	628,318	78,060	7,336	884	187	—	13
West North Central	**4,518,501**	**3,947,742**	**527,469**	**23,317**	**6,494**	**13,415**	**—**	**64**
Delaware	187,092	169,511	17,033	430	117	—	—	1
Maryland	1,479,709	1,337,774	137,249	3,931	706	46	2	1
District of Columbia	203,276	178,507	24,568	166	34	—	1	—
Virginia	1,814,936	1,623,754	166,516	3,252	1,685	19,728	1	—
West Virginia	810,469	716,150	83,484	9,451	1,070	309	—	5
North Carolina	1,796,450	1,546,920	232,790	9,546	5,722	1,444	—	28
South Carolina	847,467	728,816	111,655	3,322	2,166	1,493	—	15
Georgia	1,405,499	1,238,409	152,632	12,147	1,746	564	1	—
Florida	3,987,866	3,555,740	402,009	17,649	3,660	8,805	—	3
South Atlantic	**12,532,764**	**11,095,581**	**1,327,936**	**59,894**	**16,906**	**32,389**	**5**	**53**
Kentucky	881,047	764,922	100,533	4,386	4,003	7,201	—	2
Tennessee	34,858	31,213	3,372	114	117	42	—	—
Alabama	1,015,074	889,372	120,749	4,325	627	—	—	1
Mississippi	483,155	413,011	63,870	3,590	449	2,235	—	—
East South Central	**2,414,134**	**2,098,518**	**288,524**	**12,415**	**5,196**	**9,478**	**—**	**3**
Arkansas	647,120	558,874	69,875	14,773	485	3,113	—	—
Louisiana	1,350,982	1,188,378	136,302	16,256	2,119	7,925	—	2
Oklahoma	1,027,795	895,959	110,257	12,226	1,068	8,285	—	—
Texas	4,718,373	4,084,433	561,044	51,363	2,523	19,009	—	1
West South Central	**7,744,270**	**6,727,644**	**877,478**	**94,618**	**6,195**	**38,332**	**—**	**3**
Montana	288,571	244,396	39,682	2,501	1,634	134	—	224
Idaho	366,117	310,271	53,687	1,610	508	41	—	—
Wyoming	155,574	130,744	22,448	2,130	167	81	—	4
Colorado	931,842	822,054	107,224	1,735	481	323	—	25
New Mexico	400,116	349,737	45,560	4,005	86	708	—	20
Arizona	715,327	626,879	82,200	4,279	1,031	937	—	1
Utah	427,220	383,713	35,303	6,712	1,446	43	—	3
Nevada	370,395	324,030	45,895	328	128	14	—	—
Mountain	**3,655,162**	**3,191,824**	**431,999**	**23,300**	**5,481**	**2,281**	**—**	**277**
Washington	850,110	760,201	85,524	2,965	1,420	—	—	—
Oregon	942,486	824,340	115,669	1,303	1,102	66	—	6
California	7,839,316	6,853,084	960,361	4,146	21,663	42	1	19
Pacific	**9,631,912**	**8,437,625**	**1,161,554**	**8,414**	**24,185**	**108**	**1**	**25**
Alaska	13,233	10,901	1,772	47	197	315	1	—
Hawaii	319,449	276,194	41,023	740	1,492	—	—	—
Alaska & Hawaii	**332,682**	**287,095**	**42,795**	**787**	**1,689**	**315**	**1**	**—**

r Revised.

TABLE 52A

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1984p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**98,114,429**	**86,806,527**	**10,434,075**
Maine	553,774	490,899	59,004
New Hampshire	452,089	394,052	52,805
Vermont	252,980	223,142	26,047
Massachusetts	2,332,279	2,082,996	226,587
Rhode Island	388,609	349,204	36,099
Connecticut	1,289,799	1,175,969	104,947
New England	**5,269,530**	**4,716,262**	**505,489**
New York	6,609,663	5,872,795	669,540
New Jersey	2,962,452	2,615,347	327,553
Pennsylvania	4,820,403	4,317,088	465,902
Middle Atlantic	**14,392,518**	**12,805,230**	**1,462,995**
Ohio	4,384,372	3,948,602	390,993
Indiana	2,280,954	2,043,946	213,623
Illinois	4,566,596	4,144,109	402,515
Michigan	3,726,462	3,378,916	328,095
Wisconsin	2,068,910	1,858,686	201,058
East North Central	**17,027,294**	**15,374,259**	**1,536,284**
Minnesota	1,769,818	1,587,143	168,657
Iowa	1,275,384	1,112,477	150,976
Missouri	2,163,489	1,927,306	216,265
North Dakota	301,167	256,022	40,865
South Dakota	312,415	268,947	40,272
Nebraska	754,581	624,431	121,007
Kansas	1,119,795	955,084	151,900
West North Central	**7,696,649**	**6,731,410**	**889,942**
Delaware	257,852	235,196	21,623
Maryland	1,624,724	1,469,811	149,588
District of Columbia	203,398	178,608	24,588
Virginia	2,186,743	1,958,146	201,072
West Virginia	820,651	724,202	85,386
North Carolina	2,718,343	2,376,614	317,324
South Carolina	1,398,140	1,228,534	158,944
Georgia	2,443,363	2,197,891	223,682
Florida	5,322,918	4,728,977	558,437
South Atlantic	**16,976,132**	**15,097,979**	**1,740,644**
Kentucky	1,541,891	1,365,507	156,296
Tennessee	1,999,269	1,778,872	202,988
Alabama	1,684,107	1,487,296	185,537
Mississippi	1,066,452	933,480	123,404
East South Central	**6,291,719**	**5,565,155**	**668,225**
Arkansas	1,049,167	918,724	107,163
Louisiana	1,802,042	1,590,696	183,119
Oklahoma	1,536,994	1,331,124	181,016
Texas	6,756,649	5,841,638	824,645
West South Central	**11,144,852**	**9,682,182**	**1,295,943**
Montana	395,190	333,272	55,823
Idaho	451,675	382,101	66,301
Wyoming	244,521	201,066	40,295
Colorado	1,447,656	1,260,482	183,948
New Mexico	587,863	501,299	79,966
Arizona	1,262,098	1,112,171	133,839
Utah	564,380	503,065	51,533
Nevada	403,432	350,601	51,859
Mountain	**5,356,815**	**4,644,057**	**663,564**
Washington	1,951,860	1,731,435	204,742
Oregon	1,222,556	1,063,886	155,256
California	10,262,185	8,944,535	1,244,029
Pacific	**13,436,601**	**11,739,856**	**1,604,027**
Alaska	200,401	171,836	25,581
Hawaii	321,918	278,301	41,381
Alaska & Hawaii	**522,319**	**450,137**	**66,962**

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TABLE 52B

AVERAGE NUMBER OF CUSTOMERS TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1983r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**96,141,006**	**85,125,956**	**10,137,145**
Maine	543,554	481,717	58,834
New Hampshire	434,931	380,481	49,078
Vermont	247,797	218,937	25,135
Massachusetts	2,291,838	2,050,926	218,429
Rhode Island	383,038	344,680	35,074
Connecticut	1,269,262	1,157,517	102,888
New England	**5,170,420**	**4,634,258**	**489,438**
New York	6,553,297	5,816,796	665,449
New Jersey	2,922,298	2,580,777	322,091
Pennsylvania	4,771,415	4,275,047	458,979
Middle Atlantic	**14,247,010**	**12,672,620**	**1,446,519**
Ohio	4,356,292	3,925,904	386,833
Indiana	2,264,603	2,030,162	211,298
Illinois	4,537,562	4,119,086	398,226
Michigan	3,706,574	3,363,117	324,341
Wisconsin	2,045,860	1,838,073	198,595
East North Central	**16,910,891**	**15,276,342**	**1,519,293**
Minnesota	1,744,983	1,565,139	165,759
Iowa	1,272,819	1,111,861	148,994
Missouri	2,146,921	1,907,057	219,378
North Dakota	297,464	252,858	40,526
South Dakota	309,798	267,756	38,857
Nebraska	750,198	620,491	120,928
Kansas	1,103,493	941,983	148,631
West North Central	**7,625,676**	**6,667,145**	**883,073**
Delaware	251,564	229,415	21,183
Maryland	1,582,392	1,431,888	145,560
District of Columbia	202,069	177,410	24,459
Virginia	2,143,544	1,921,914	194,431
West Virginia	814,305	719,823	83,693
North Carolina	2,627,749	2,297,973	305,587
South Carolina	1,355,718	1,192,817	152,351
Georgia	2,311,685	2,079,760	210,398
Florida	5,129,595	4,560,623	530,622
South Atlantic	**16,418,621**	**14,611,623**	**1,668,284**
Kentucky	1,494,212	1,324,226	149,906
Tennessee	1,960,252	1,746,540	196,499
Alabama	1,649,200	1,457,835	179,894
Mississippi	1,037,160	907,331	119,556
East South Central	**6,140,824**	**5,435,932**	**645,855**
Arkansas	1,030,446	902,035	105,637
Louisiana	1,764,769	1,578,870	158,790
Oklahoma	1,501,955	1,304,713	173,292
Texas	6,451,569	5,574,863	788,312
West South Central	**10,748,739**	**9,360,481**	**1,226,031**
Montana	388,214	327,694	54,379
Idaho	445,823	377,471	65,045
Wyoming	243,139	200,069	39,297
Colorado	1,433,854	1,246,756	181,533
New Mexico	559,969	478,596	76,148
Arizona	1,187,919	1,046,866	126,312
Utah	551,317	491,967	49,076
Nevada	390,978	340,155	45,997
Mountain	**5,201,213**	**4,509,574**	**637,787**
Washington	1,837,067	1,630,885	193,158
Oregon	1,196,699	1,042,893	150,321
California	10,087,337	8,795,081	1,216,547
Pacific	**13,121,103**	**11,468,859**	**1,560,026**
Alaska	240,188	215,559	20,307
Hawaii	316,321	273,563	40,532
Alaska & Hawaii	**556,509**	**489,122**	**60,839**

r Revised.

TABLE 53A

AVERAGE NUMBER OF CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1984p

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**74,987,233**	**66,338,934**	**8,000,095**
Maine	528,704	468,996	56,246
New Hampshire	393,904	344,699	46,058
Vermont	196,212	172,993	20,058
Massachusetts	2,037,282	1,820,912	201,668
Rhode Island	385,504	346,329	35,885
Connecticut	1,232,769	1,125,632	98,835
New England	**4,774,375**	**4,279,561**	**458,750**
New York	6,464,824	5,744,472	654,717
New Jersey	2,913,976	2,571,661	322,924
Pennsylvania	4,592,578	4,106,038	450,747
Middle Atlantic	**13,971,378**	**12,422,171**	**1,428,388**
Ohio	3,877,467	3,490,266	347,663
Indiana	1,726,548	1,533,227	173,654
Illinois	4,189,792	3,796,529	375,473
Michigan	3,345,721	3,031,606	298,853
Wisconsin	1,713,153	1,533,400	173,661
East North Central	**14,852,681**	**13,385,028**	**1,369,304**
Minnesota	1,080,160	954,514	115,370
Iowa	925,376	795,922	121,307
Missouri	1,448,562	1,277,482	158,786
North Dakota	193,292	163,054	27,906
South Dakota	167,213	140,163	26,052
Nebraska	—	—	—
Kansas	723,493	635,687	78,943
West North Central	**4,538,096**	**3,966,822**	**528,364**
Delaware	189,170	171,417	17,134
Maryland	1,501,375	1,357,115	139,230
District of Columbia	203,398	178,608	24,588
Virginia	1,840,601	1,645,170	170,183
West Virginia	812,591	717,202	84,411
North Carolina	1,831,521	1,575,378	239,024
South Carolina	860,562	739,303	114,233
Georgia	1,420,192	1,250,999	154,636
Florida	4,050,266	3,605,912	413,403
South Atlantic	**12,709,676**	**11,241,104**	**1,356,842**
Kentucky	894,080	775,726	102,575
Tennessee	35,001	31,316	3,411
Alabama	1,023,038	895,770	122,262
Mississippi	487,480	416,253	64,801
East South Central	**2,439,599**	**2,119,065**	**293,049**
Arkansas	655,059	563,859	70,800
Louisiana	1,365,757	1,200,276	139,164
Oklahoma	1,041,691	907,440	112,353
Texas	4,833,752	4,185,353	574,191
West South Central	**7,896,259**	**6,856,928**	**896,508**
Montana	291,356	245,276	40,441
Idaho	368,847	311,400	54,415
Wyoming	156,547	131,278	22,890
Colorado	945,274	834,001	110,355
New Mexico	407,562	356,190	46,414
Arizona	732,761	642,491	84,051
Utah	432,237	387,577	35,880
Nevada	378,902	331,009	47,307
Mountain	**3,713,486**	**3,239,222**	**441,753**
Washington	864,183	769,959	89,782
Oregon	950,012	827,523	120,096
California	7,939,351	6,940,188	972,980
Pacific	**9,753,546**	**8,537,670**	**1,182,858**
Alaska	16,219	13,062	2,898
Hawaii	321,918	278,301	41,381
Alaska & Hawaii	**338,137**	**291,363**	**44,279**

p Preliminary.

TABLE 53B

AVERAGE NUMBER OF CUSTOMERS INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CERTAIN CLASS OF SERVICE—YEAR 1983r

Division/State	Total Ultimate Customers	Residential	Commercial
Total United States	**73,627,842**	**65,173,000**	**7,811,891**
Maine	518,670	459,972	56,100
New Hampshire	379,891	333,353	43,381
Vermont	191,425	169,161	19,170
Massachusetts	1,997,753	1,789,655	193,611
Rhode Island	379,933	341,805	34,860
Connecticut	1,212,790	1,107,663	96,858
New England	**4,680,462**	**4,201,609**	**443,980**
New York	6,408,797	5,688,868	650,554
New Jersey	2,874,130	2,537,377	317,485
Pennsylvania	4,545,911	4,065,748	444,241
Middle Atlantic	**13,828,838**	**12,291,993**	**1,412,280**
Ohio	3,852,976	3,468,807	345,838
Indiana	1,714,485	1,522,852	172,127
Illinois	4,164,777	3,775,252	371,625
Michigan	3,328,703	3,018,288	295,467
Wisconsin	1,692,519	1,515,079	171,343
East North Central	**14,753,460**	**13,300,278**	**1,356,400**
Minnesota	1,063,169	939,821	113,221
Iowa	922,725	795,132	119,466
Missouri	1,440,510	1,264,513	162,869
North Dakota	191,351	161,168	27,864
South Dakota	165,090	139,345	24,740
Nebraska	—	—	—
Kansas	709,930	623,883	77,477
West North Central	**4,492,775**	**3,923,862**	**525,637**
Delaware	184,242	166,891	16,795
Maryland	1,462,735	1,322,672	135,409
District of Columbia	202,069	177,410	24,459
Virginia	1,790,661	1,602,467	163,827
West Virginia	806,301	712,869	82,718
North Carolina	1,779,636	1,532,080	230,923
South Carolina	838,997	721,652	110,382
Georgia	1,378,562	1,216,019	148,171
Florida	3,887,826	3,469,221	390,094
South Atlantic	**12,331,029**	**10,921,281**	**1,302,778**
Kentucky	884,354	768,496	100,353
Tennessee	34,668	31,051	3,349
Alabama	1,006,583	882,358	119,381
Mississippi	479,897	410,226	63,411
East South Central	**2,405,502**	**2,092,131**	**286,494**
Arkansas	642,340	553,123	69,408
Louisiana	1,335,695	1,176,839	133,459
Oklahoma	1,014,135	884,826	108,542
Texas	4,619,716	3,998,427	549,692
West South Central	**7,611,886**	**6,613,215**	**861,101**
Montana	286,487	241,729	39,135
Idaho	363,940	307,483	53,444
Wyoming	156,334	131,366	22,575
Colorado	947,323	834,987	109,664
New Mexico	384,131	336,959	43,121
Arizona	694,829	607,785	80,815
Utah	421,161	377,983	34,906
Nevada	362,864	317,832	40,861
Mountain	**3,617,069**	**3,156,124**	**424,521**
Washington	841,585	750,276	86,895
Oregon	951,676	830,034	119,255
California	7,784,271	6,807,957	950,289
Pacific	**9,577,532**	**8,388,267**	**1,156,439**
Alaska	12,968	10,677	1,729
Hawaii	316,321	273,563	40,532
Alaska & Hawaii	**329,289**	**284,240**	**42,261**

r Revised.

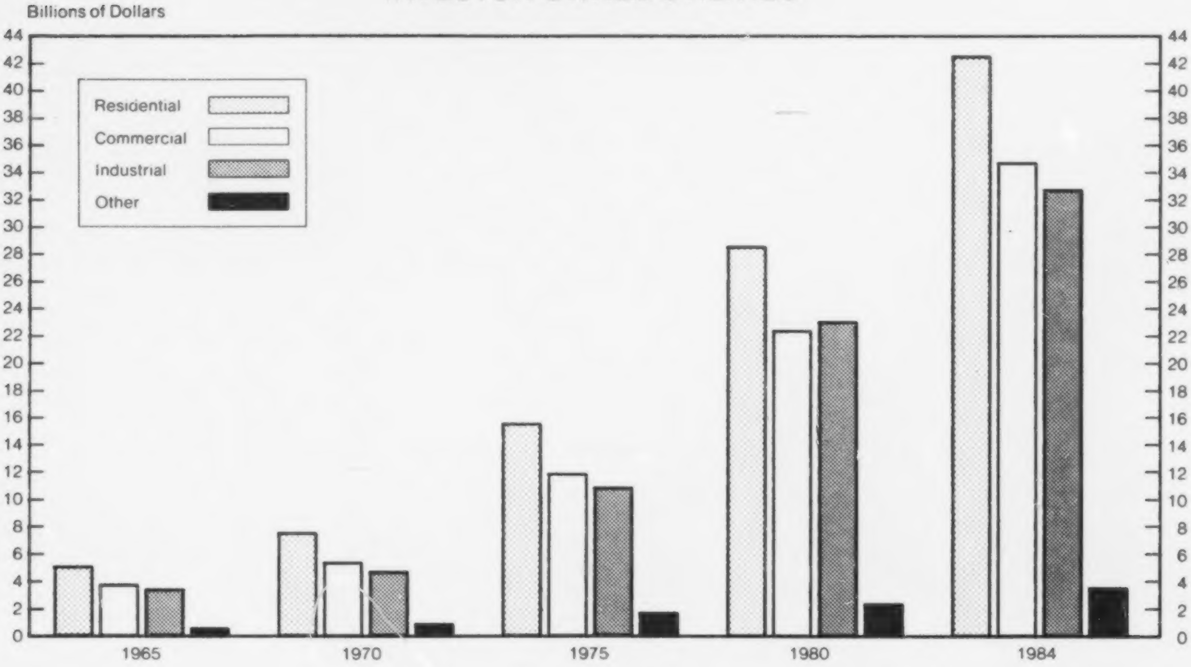
REVENUES

SECTION VIII

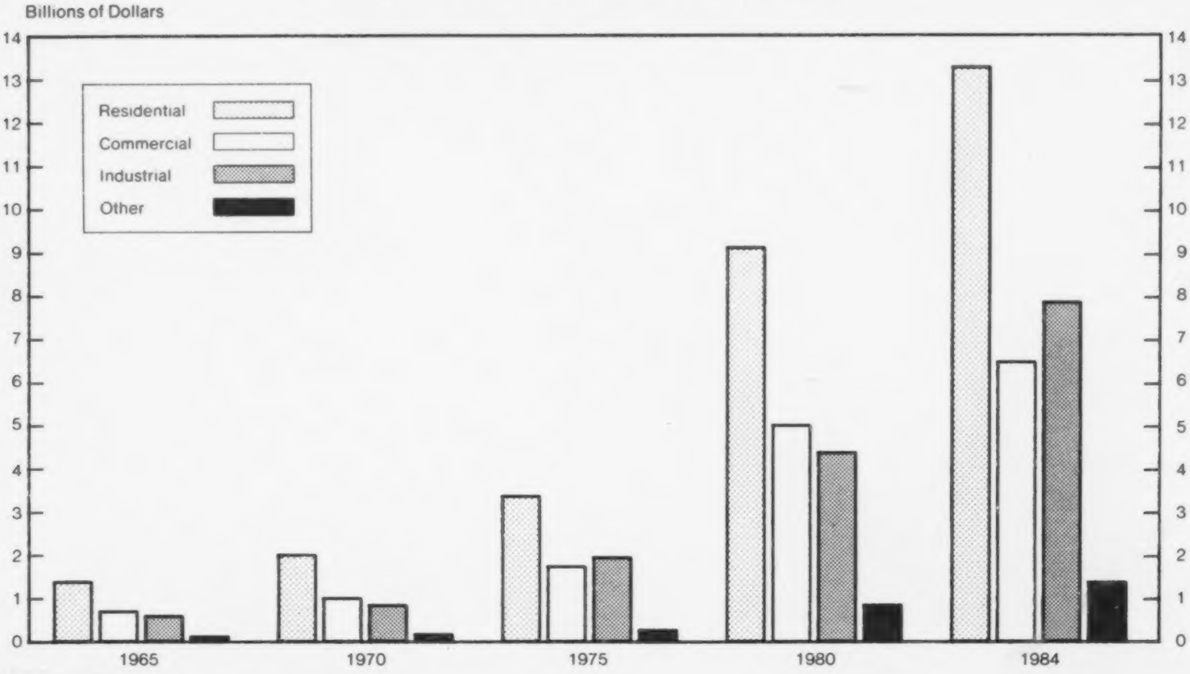
Chart VIII-A

REVENUE FROM ULTIMATE CUSTOMERS

INVESTOR-OWNED UTILITIES



NON-INVESTOR-OWNED UTILITIES



Based on Tables 56 and 57, on page 64.

TABLE 56

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenue from Sales †	Exports to Canada and Mexico	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1984p	**$142,331,535**	**$21,796**	**$142,309,739**	**$55,749,966**	**$41,200,161**	**$40,459,404**	**$1,367,803**	**$3,024,335**	**$303,217**	**$204,853**
1983r	129,596,675	7,874	129,588,801	51,226,246	37,103,377	36,611,630	1,324,955	2,864,037	296,766	161,790
1982	121,597,243	13,012	121,584,231	47,188,127	34,150,840	35,881,745	1,254,430	2,633,749	291,751	183,589
1981	111,028,011r	26,838	111,001,173r	42,824,457r	31,325,322	33,030,093	1,168,691	2,247,307	238,554r	166,749
1980	95,505,802	43,421	95,462,381	37,580,892	27,369,963	27,316,770	1,041,008	1,811,065	207,683	135,000
1979	79,649,846	9,609	79,640,237	30,798,693	22,264,356	23,825,487	918,157	1,517,333	188,628	127,583
1978	69,865,806	12,862	69,852,944	27,381,419	19,714,364	20,280,391	849,677	1,350,439	170,123	106,531
1977	62,629,713	19,684	62,610,029	24,687,500	18,021,548	17,629,321	776,771	1,245,155	145,680	104,054
1976	53,480,659	17,795	53,462,864	21,149,590	15,236,104	14,999,522	724,436	1,112,247	163,840	77,125
1975	46,864,685	11,229	46,853,456	18,803,156	13,486,624	12,707,490	659,332	975,799	159,160	61,895
1974	39,133,322	6,517	39,126,805	15,702,853	11,196,960	10,673,464	573,164	780,010	146,112	54,242
1973	31,668,281	5,422	31,662,859	13,194,773	9,147,188	8,073,636	491,831	620,991	91,903	42,537
1972	27,927,681	6,611	27,921,070	11,729,833	8,041,052	6,983,891	449,831	593,267	85,300	37,896
1971	24,735,122	9,963	24,725,159	10,483,526	7,071,971	6,133,964	411,534	512,772	77,862	33,530
1970	22,076,885	11,023	22,065,862	9,415,707	6,290,225	5,429,852	377,791	453,104	69,169	30,014
1969	20,144,225	4,876	20,139,349	8,532,729	5,704,764	5,044,857	350,563	417,571	62,981	25,884
1968	18,585,368	5,489	18,579,879	7,802,033	5,315,100	4,672,211	327,196	379,435	61,440	22,464
1967	17,226,235	3,515	17,222,720	7,183,908	4,935,911	4,364,759	307,272	349,323	60,609	20,938
1966	16,199,140	3,004	16,196,136	6,733,714	4,649,084	4,134,538	281,584	321,001	59,132	17,083
1965	15,162,538	4,159	15,158,379	6,328,756	4,312,859	3,884,748	262,569	290,892	60,903	17,652
1964	14,413,138	4,680	14,408,458	6,040,681	4,028,198	3,733,369	248,225	278,319	61,702	17,964

Note: Total may not equal sum of components due to independent rounding.
† Excludes other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 57

REVENUES

INVESTOR-OWNED ELECTRIC UTILITIES

BY YEAR AND CLASS OF SERVICE
THOUSANDS OF DOLLARS

Year	Total Revenues	Other Revenues †	Total from Ultimate Customers	Residential	Commercial*	Industrial*	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Interdepartmental
1984p	**$117,951,127**	**$4,616,179**	**$113,334,948**	**$42,461,637**	**$34,720,606**	**$32,616,121**	**$1,099,048**	**$2,164,373**	**$141,674**	**$131,489**
1983r	107,497,949	4,632,729	102,865,220	39,067,481	31,336,661	29,275,314	1,057,872	1,899,057	126,300	102,536
1982	102,558,213	5,460,375	97,097,838	36,138,384	29,603,969	28,322,848	1,022,473	1,775,494	130,340	104,329
1981	94,266,325	5,497,327	88,768,998	32,622,129	26,370,929	26,986,678	933,861	1,641,632	120,124	93,645
1980	80,635,823	4,460,469	76,175,354	28,492,402	22,351,012	22,970,668	819,762	1,362,136	111,552	67,822
1979	68,151,992	4,274,055	63,877,937	23,613,621	18,463,690	19,801,718	716,209	1,137,987	80,002	64,710
1978	61,298,846	3,683,472	57,615,374	21,623,578	16,784,764	17,379,313	682,895	1,016,671	74,772	53,381
1977	55,141,656	3,364,784	51,776,872	19,541,802	15,404,917	15,092,313	632,154	964,452	90,263	50,971
1976	47,079,734	2,599,312	44,480,422	16,920,314	13,137,482	12,688,950	612,674	935,116	150,173	35,713
1975	41,855,398	2,285,281	39,570,117	15,434,811	11,766,583	10,785,231	558,554	841,853	157,539	25,546
1974	34,970,201	1,784,436	33,185,765	12,881,369	9,737,585	9,243,172	485,472	670,971	144,837	22,359
1973	27,525,926	1,208,947	26,316,979	10,590,178	7,807,644	6,875,953	412,921	522,826	90,753	16,704
1972	24,132,546	1,011,942	23,120,604	9,359,949	6,832,630	5,950,367	378,413	502,910	84,144	12,191
1971	21,230,373	835,581	20,394,792	8,308,330	6,016,096	5,199,601	347,972	435,949	76,701	10,143
1970	18,830,214	722,994	18,107,220	7,424,224	5,314,447	4,591,093	319,373	381,405	68,030	8,648
1969	17,163,515	647,843	16,515,672	6,722,985	4,804,558	4,274,968	296,028	347,078	61,855	8,200
1968	15,809,534	577,493	15,232,041	6,142,073	4,471,545	3,961,473	276,010	313,231	60,295	7,414
1967	14,568,786	513,147	14,055,639	5,639,111	4,125,734	3,679,635	258,324	286,898	59,358	6,579
1966	13,772,851	488,777	13,284,074	5,308,626	3,906,604	3,497,745	240,978	266,626	58,006	5,489
1965	12,886,621	450,470	12,436,151	4,972,016	3,627,566	3,297,495	226,297	247,918	59,772	5,087
1964	12,211,203	428,384	11,782,819	4,728,561	3,366,885	3,173,671	213,703	234,522	60,554	4,923

Note: Total may not equal sum of components due to independent rounding.
† Includes revenue from sales to non-investor-owned electric utilities, from exports and other electric revenues.
** Commercial and Industrial are not wholly comparable on a year-to-year basis due to changes from one classification to another.*
p Preliminary. r Revised.

TABLE 58

REVENUES IN PERCENT OF TOTAL TOTAL ELECTRIC UTILITY INDUSTRY

BY YEAR AND CLASS OF SERVICE

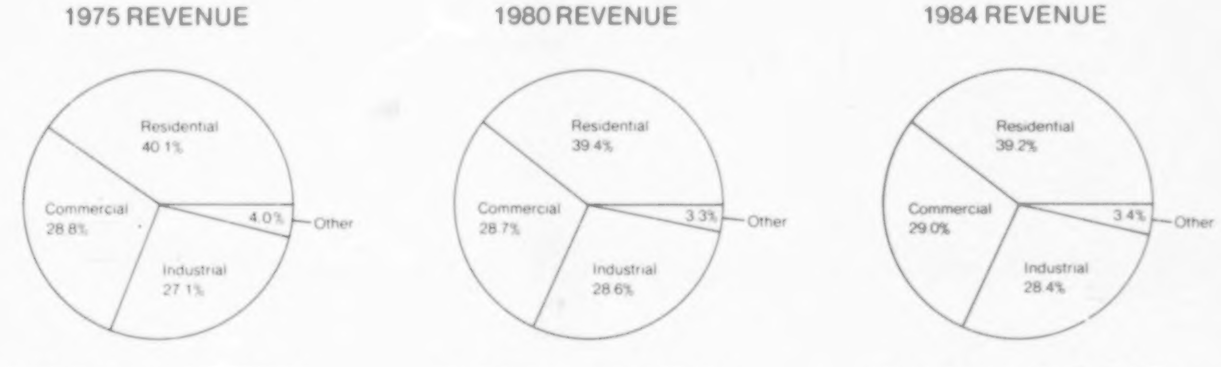
Year	Residential	Commercial	Industrial	Street & Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
1984p	**39.2%**	**29.0%**	**28.4%**	**1.0%**	**2.1%**	**0.2%**	**0.1%**
1983r	39.5	28.6	28.3	1.0	2.2	0.3	0.1
1982	38.8	28.1	29.5	1.0	2.2	0.2	0.2
1981	38.6r	28.2r	29.7r	1.1	2.0	0.2	0.2
1980	39.4	28.7	28.6	1.1	1.9	0.2	0.1
1979	38.7	28.0	29.9	1.1	1.9	0.2	0.2
1978	39.2	28.2	29.0	1.2	1.9	0.3	0.2
1977	39.4	28.8	28.2	1.2	2.0	0.2	0.2
1976	39.6	28.5	28.0	1.4	2.1	0.3	0.1
1975	40.1	28.8	27.1	1.4	2.1	0.4	0.1
1974	40.1	28.6	27.3	1.5	2.0	0.4	0.1
1973	41.6	28.9	25.5	1.6	2.0	0.3	0.1
1972	42.0	28.8	25.0	1.6	2.1	0.3	0.2
1971	42.4	28.6	24.8	1.7	2.1	0.3	0.1
1970	42.7	28.5	24.6	1.7	2.1	0.3	0.1
1969	42.4	28.3	25.0	1.8	2.1	0.3	0.1
1968	42.0	28.6	25.2	1.8	2.0	0.3	0.1
1967	41.7	28.7	25.3	1.8	2.0	0.4	0.1
1966	41.6	28.7	25.5	1.7	2.0	0.4	0.1
1965	41.8	28.5	25.6	1.7	1.9	0.4	0.1
1964	41.9	28.0	25.9	1.7	1.9	0.4	0.2

Based on revenue data in Table 56. *p Preliminary.* *r Revised.*

CHART VIII-B

REVENUE

BY YEAR AND CLASS OF SERVICE
TOTAL ELECTRIC UTILITY INDUSTRY
THOUSANDS OF DOLLARS



Total Revenue = $46,853,456 Total Revenue = $95,462,381 Total Revenue = $142,309,739

Based on Table 58, as shown above.

TABLE 59A

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1984p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-departmental
Total United States	**$142,309,739**	**$55,749,966**	**$41,200,161**	**$40,459,404**	**$1,367,803**	**$3,024,335**	**$303,217**	**$204,853**
Maine	627,312	257,950	152,491	199,731	9,530	7,527	—	82
New Hampshire	573,197	258,477	122,539	180,787	7,471	3,909	—	14
Vermont	273,172	123,612	54,372	81,002	2,236	11,883	—	69
Massachusetts	3,321,904	1,246,369	1,262,491	710,506	53,312	46,555	2,638	33
Rhode Island	470,068	184,424	158,749	111,315	6,790	8,789	—	1
Connecticut	2,114,191	862,023	728,037	481,645	32,988	2,732	6,048	718
New England	**7,379,844**	**2,932,855**	**2,478,679**	**1,764,985**	**112,327**	**81,395**	**8,686**	**918**
New York	10,092,771	3,475,670	3,942,064	1,845,668	126,497	535,229	165,865	1,779
New Jersey	4,793,349	1,793,802	1,760,192	1,167,056	70,131	—	357	1,810
Pennsylvania	6,923,447	2,658,788	1,657,026	2,456,414	85,082	10,685	51,024	4,429
Middle Atlantic	**21,809,566**	**7,928,259**	**7,359,281**	**5,469,138**	**281,710**	**545,914**	**217,247**	**8,017**
Ohio	6,947,328	2,558,864	1,702,892	2,441,248	55,107	184,590	3,413	1,213
Indiana	3,353,707	1,318,504	624,878	1,360,397	32,709	10,700	1,380	5,140
Illinois	7,117,807	2,671,843	2,204,867	1,810,770	41,663	364,669	23,907	88
Michigan	4,478,230	1,523,964	1,171,950	1,658,820	49,818	70,260	—	3,418
Wisconsin	2,344,327	978,064	655,000	668,933	26,495	12,720	—	3,115
East North Central	**24,241,400**	**9,051,239**	**6,359,587**	**7,940,168**	**205,792**	**642,939**	**28,700**	**12,975**
Minnesota	1,999,764	831,021	364,206	768,120	20,243	15,638	—	535
Iowa	1,640,698	736,933	412,995	446,116	20,553	24,070	—	29
Missouri	2,450,894	1,129,776	804,637	449,391	24,214	41,663	556	657
North Dakota	382,667	176,362	95,280	94,074	3,257	13,500	—	195
South Dakota	308,350	171,989	87,580	39,605	2,931	6,245	—	*
Nebraska	849,642	367,966	298,036	145,350	12,834	24,166	568	722
Kansas	1,581,313	628,593	573,018	353,467	15,257	10,815	—	164
West North Central	**9,213,327**	**4,042,639**	**2,635,752**	**2,296,123**	**99,289**	**136,098**	**1,124**	**2,302**
Delaware	441,105	172,542	121,128	129,707	17,345	189	—	194
Maryland	2,312,046	971,768	618,259	673,647	32,787	5,698	8,310	1,578
District of Columbia	533,323	79,127	284,865	144,139	11,591	—	13,601	—
Virginia	3,192,252	1,447,866	860,480	565,010	29,074	284,881	1,628	3,314
West Virginia	977,289	382,688	222,019	365,532	5,404	1,612	—	32
North Carolina	4,066,723	1,811,848	985,019	1,186,143	25,025	58,354	—	334
South Carolina	2,343,915	954,756	506,745	830,961	9,639	41,435	—	379
Georgia	3,411,336	1,448,833	916,554	1,002,987	23,643	15,055	4,264	—
Florida	7,784,568	4,123,279	2,462,285	954,762	65,532	169,159	940	8,610
South Atlantic	**25,062,557**	**11,392,708**	**6,977,354**	**5,852,889**	**220,040**	**576,382**	**28,744**	**14,440**
Kentucky	2,442,011	826,354	406,645	966,637	11,493	227,651	—	3,232
Tennessee	3,384,639	1,247,123	363,970	1,740,940	20,817	5,103	—	6,685
Alabama	2,836,757	1,105,611	538,625	1,173,667	13,429	2,343	—	3,081
Mississippi	1,434,994	619,951	361,624	424,601	9,909	18,531	—	377
East South Central	**10,098,400**	**3,799,039**	**1,670,865**	**4,305,845**	**55,649**	**253,628**	**—**	**13,375**
Arkansas	1,439,874	646,264	311,334	446,151	8,228	27,897	—	—
Louisiana	3,290,349	1,257,598	733,395	1,114,033	22,240	97,451	—	65,632
Oklahoma	1,986,224	905,424	585,959	403,956	11,020	79,865	—	—
Texas	13,091,779	5,051,251	3,492,462	4,188,417	88,405	247,584	—	23,659
West South Central	**19,808,226**	**7,860,538**	**5,123,150**	**6,152,557**	**129,893**	**452,796**	**—**	**89,292**
Montana	392,917	145,234	99,995	140,986	3,601	2,506	—	594
Idaho	553,655	227,938	166,303	155,271	3,997	147	—	—
Wyoming	413,328	98,924	116,318	193,708	1,672	2,502	—	204
Colorado	1,486,290	579,576	656,457	220,244	18,138	10,587	—	1,288
New Mexico	751,828	244,852	279,524	182,808	5,617	36,356	—	2,671
Arizona	2,126,320	911,104	721,155	435,156	23,630	23,165	1,540	10,571
Utah	803,186	283,616	258,900	215,147	7,755	37,706	—	64
Nevada	582,635	240,644	170,307	159,467	4,682	7,535	—	—
Mountain	**7,110,158**	**2,731,888**	**2,468,959**	**1,702,786**	**69,091**	**120,504**	**1,540**	**15,391**
Washington	2,429,604	1,024,571	535,308	823,577	17,436	27,744	486	482
Oregon	1,566,784	613,094	472,875	464,267	13,994	1,699	—	854
California	12,581,340	4,021,603	4,797,413	3,377,816	153,976	167,562	16,642	46,329
Pacific	**16,577,728**	**5,659,269**	**5,805,596**	**4,665,660**	**185,406**	**197,005**	**17,128**	**47,665**
Alaska	305,672	134,090	136,467	14,611	2,303	17,675	48	479
Hawaii	702,860	217,443	184,472	294,643	6,303	—	—	—
Alaska & Hawaii	**1,008,532**	**351,533**	**320,938**	**309,254**	**8,605**	**17,675**	**48**	**479**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
** Less than five hundred dollars.*

TABLE 59B

REVENUES

TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND CLASS OF SERVICE
YEAR 1983r—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$129,588,801**	**$51,226,246**	**$37,103,377**	**$36,611,630**	**$1,324,955**	**$2,864,037**	**$296,766**	**$161,790**
Maine	534,653	223,220	120,784	174,931	8,947	6,689	—	82
New Hampshire	512,452	232,840	104,126	163,999	7,491	3,982	—	14
Vermont	252,318	112,824	49,374	76,684	2,197	11,170	—	69
Massachusetts	2,860,711	1,097,210	1,052,544	613,444	50,201	42,896	4,380	36
Rhode Island	429,361	172,845	145,479	97,004	6,570	7,461	—	1
Connecticut	1,836,372	756,532	630,403	414,229	30,058	2,174	2,291	686
New England	**6,425,867**	**2,595,471**	**2,102,711**	**1,540,291**	**105,464**	**74,373**	**6,671**	**888**
New York	9,657,026	3,316,778	3,858,391	1,608,144	144,453	549,255	178,035	1,970
New Jersey	4,428,959	1,700,845	1,582,466	1,077,573	65,886	—	326	1,863
Pennsylvania	6,167,568	2,396,852	1,487,298	2,148,963	78,453	9,501	42,308	4,193
Middle Atlantic	**20,253,553**	**7,414,475**	**6,928,155**	**4,834,680**	**288,792**	**558,756**	**220,669**	**8,026**
Ohio	6,410,795	2,450,646	1,608,725	2,119,459	51,568	175,908	3,343	1,146
Indiana	2,919,538	1,155,076	522,950	1,200,268	28,837	8,985	1,349	2,073
Illinois	7,007,741	2,713,875	2,129,185	1,769,789	42,045	330,678	21,929	239
Michigan	4,131,335	1,468,657	1,068,591	1,473,253	47,857	67,923	—	5,054
Wisconsin	2,269,678	963,824	629,481	632,938	27,944	12,583	—	2,908
East North Central	**22,739,087**	**8,752,078**	**5,958,932**	**7,195,707**	**198,252**	**596,077**	**26,620**	**11,420**
Minnesota	1,891,988	809,127	337,341	709,747	20,008	15,088	—	678
Iowa	1,517,452	703,104	377,063	396,088	19,255	21,912	—	30
Missouri	2,403,632	1,142,848	762,346	427,645	23,371	45,933	656	833
North Dakota	347,141	164,414	85,699	81,281	3,072	12,572	—	103
South Dakota	296,061	166,302	83,959	37,042	2,852	5,907	—	*
Nebraska	781,521	352,170	264,319	129,125	12,000	22,525	568	814
Kansas	1,484,978	614,025	530,322	314,979	14,863	10,619	—	171
West North Central	**8,722,773**	**3,951,989**	**2,441,048**	**2,095,907**	**95,420**	**134,556**	**1,224**	**2,628**
Delaware	424,578	166,823	112,757	127,343	17,274	170	—	211
Maryland	2,159,255	914,821	590,774	608,558	31,571	5,182	6,736	1,613
District of Columbia	500,622	76,242	262,506	137,545	11,695	—	12,634	—
Virginia	3,075,034	1,407,602	813,733	556,794	27,598	265,082	1,171	3,054
West Virginia	918,454	362,230	209,839	339,454	5,199	1,682	—	49
North Carolina	3,670,676	1,650,040	878,277	1,071,357	23,719	46,939	—	344
South Carolina	2,115,024	867,039	453,170	748,200	8,470	37,781	—	364
Georgia	2,982,407	1,278,877	792,309	873,269	20,876	13,511	3,566	—
Florida	6,747,431	3,605,034	2,084,207	833,380	61,438	155,115	—	8,257
South Atlantic	**22,593,482**	**10,328,707**	**6,197,572**	**5,295,901**	**207,840**	**525,463**	**24,107**	**13,893**
Kentucky	2,311,107	790,008	366,957	1,009,613	11,066	129,496	—	3,967
Tennessee	3,128,195	1,165,961	342,233	1,591,164	20,252	4,884	—	3,702
Alabama	2,618,762	1,046,986	495,104	1,057,665	12,666	4,344	—	1,998
Mississippi	1,285,075	566,070	316,524	374,502	9,011	18,697	—	271
East South Central	**9,343,140**	**3,569,025**	**1,520,818**	**4,032,944**	**52,995**	**157,421**	**—**	**9,937**
Arkansas	1,282,819	598,777	277,744	373,380	7,694	24,836	388	—
Louisiana	2,753,742	948,512	595,808	1,040,686	21,113	89,804	—	57,819
Oklahoma	2,001,703	868,330	548,000	410,955	8,858	165,559	—	—
Texas	11,897,916	4,457,422	3,149,931	3,947,083	80,590	243,264	—	19,626
West South Central	**17,936,180**	**6,873,042**	**4,571,483**	**5,772,105**	**118,255**	**523,464**	**388**	**77,444**
Montana	333,685	130,399	94,485	102,694	3,379	2,305	—	422
Idaho	490,300	191,189	150,572	144,343	4,071	124	—	—
Wyoming	361,416	86,429	81,540	189,274	1,421	2,556	—	195
Colorado	1,302,318	518,982	566,059	187,366	17,357	11,368	—	1,186
New Mexico	677,588	226,652	240,180	168,718	5,363	34,188	—	2,486
Arizona	1,838,794	795,975	625,316	369,461	19,936	21,234	1,409	5,464
Utah	716,371	255,785	213,270	208,708	7,568	30,976	—	64
Nevada	564,317	221,872	149,346	177,474	5,368	10,241	—	17
Mountain	**6,284,788**	**2,427,284**	**2,120,769**	**1,548,039**	**64,462**	**112,991**	**1,409**	**9,834**
Washington	1,849,443	807,617	429,022	574,231	16,321	21,476	439	337
Oregon	1,314,371	524,745	395,657	378,848	12,554	1,818	—	749
California	11,223,749	3,633,832	4,200,371	3,048,406	156,162	143,973	15,199	25,806
Pacific	**14,387,563**	**4,966,195**	**5,025,050**	**4,001,485**	**185,037**	**167,266**	**15,638**	**26,892**
Alaska	245,841	143,067	71,022	14,880	2,333	13,670	41	827
Hawaii	656,525	204,912	165,816	279,692	6,105	—	—	—
Alaska & Hawaii	**902,365**	**347,979**	**236,838**	**294,571**	**8,438**	**13,670**	**41**	**827**

Note: Total may not equal sum of components due to independent rounding.
r Revised.
** Less than five hundred dollars.*

TABLE 60A

REVENUES

INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE
YEAR 1984p—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$113,334,948**	**$42,461,637**	**$34,720,606**	**$32,616,121**	**$1,099,048**	**$2,164,373**	**$141,674**	**$131,489**
Maine	607,970	247,288	149,050	195,243	9,274	7,115	–	–
New Hampshire	531,556	232,344	110,501	177,736	7,366	3,610	–	–
Vermont	220,144	95,800	45,164	66,071	1,820	11,288	–	–
Massachusetts	2,925,252	1,081,636	1,178,286	586,968	50,190	25,535	2,638	–
Rhode Island	467,794	182,951	158,445	110,841	6,768	8,789	–	–
Connecticut	2,013,510	832,961	704,705	437,849	31,947	–	6,048	–
New England	**6,766,226**	**2,672,979**	**2,346,152**	**1,574,708**	**107,365**	**56,336**	**8,686**	**–**
New York	9,374,062	3,439,497	3,923,318	1,712,195	66,796	221,277	9,542	1,437
New Jersey	4,738,572	1,765,229	1,750,968	1,150,361	69,848	–	357	1,810
Pennsylvania	6,731,785	2,519,633	1,627,823	2,437,514	81,667	9,696	51,024	4,429
Middle Atlantic	**20,844,419**	**7,724,359**	**7,302,109**	**5,300,069**	**218,311**	**230,973**	**60,923**	**7,675**
Ohio	6,414,556	2,264,986	1,600,048	2,325,896	52,980	166,019	3,413	1,213
Indiana	2,790,747	969,221	533,624	1,245,617	28,138	7,628	1,380	5,140
Illinois	6,619,222	2,392,951	2,052,398	1,753,110	40,706	356,061	23,907	88
Michigan	4,137,345	1,378,922	1,078,308	1,593,500	46,268	37,839	–	2,507
Wisconsin	2,022,621	792,761	608,467	585,261	23,513	11,003	–	1,617
East North Central	**21,984,491**	**7,798,841**	**5,872,845**	**7,503,385**	**191,605**	**578,550**	**28,700**	**10,566**
Minnesota	1,361,771	415,863	224,191	692,259	15,864	13,376	–	217
Iowa	1,272,850	501,445	347,526	386,781	17,224	19,845	–	29
Missouri	1,801,097	735,605	667,831	361,806	20,795	14,973	–	87
North Dakota	213,766	95,698	52,638	57,561	3,179	4,495	–	195
South Dakota	178,448	80,710	62,710	30,678	2,551	1,799	–	*
Nebraska	–	–	–	–	–	–	–	–
Kansas	1,036,249	417,249	344,825	259,956	12,618	1,480	–	120
West North Central	**5,864,181**	**2,246,570**	**1,699,722**	**1,789,042**	**72,231**	**55,969**	**–**	**649**
Delaware	345,277	130,466	101,607	110,371	2,639	–	–	194
Maryland	2,166,574	885,024	575,931	663,220	31,545	966	8,310	1,578
District of Columbia	533,323	79,127	284,865	144,139	11,591	–	13,601	–
Virginia	2,825,904	1,226,610	776,776	513,507	27,017	280,366	1,628	–
West Virginia	972,405	379,665	220,637	365,057	5,402	1,612	–	32
North Carolina	3,105,522	1,232,936	792,739	1,016,922	19,700	42,942	–	283
South Carolina	1,664,118	600,235	390,104	645,141	8,016	20,244	–	379
Georgia	2,525,096	819,469	788,885	886,829	21,534	4,116	4,264	–
Florida	6,031,710	3,179,509	1,992,861	656,946	48,771	146,859	–	6,763
South Atlantic	**20,169,928**	**8,533,040**	**5,924,405**	**5,002,131**	**176,214**	**497,105**	**27,804**	**9,229**
Kentucky	1,324,401	450,831	300,331	337,640	9,661	225,329	–	609
Tennessee	58,198	24,733	12,323	19,602	330	1,210	–	–
Alabama	1,796,478	664,286	430,400	692,177	9,519	–	–	96
Mississippi	764,300	279,251	225,776	235,875	7,738	15,660	–	–
East South Central	**3,943,377**	**1,419,101**	**968,830**	**1,285,295**	**27,247**	**242,199**	**–**	**705**
Arkansas	1,006,005	385,934	227,174	363,295	6,605	22,997	–	–
Louisiana	2,797,278	938,427	609,461	1,071,059	21,093	91,605	–	65,632
Oklahoma	1,427,209	587,606	405,076	345,365	10,549	78,613	–	–
Texas	10,474,790	3,808,726	2,727,729	3,667,550	70,170	199,816	–	800
West South Central	**15,705,282**	**5,720,693**	**3,969,440**	**5,447,269**	**108,416**	**393,032**	**–**	**66,432**
Montana	238,540	93,099	69,407	70,503	3,442	1,522	–	568
Idaho	474,106	191,225	138,682	141,222	2,896	81	–	–
Wyoming	245,261	54,808	48,404	139,684	1,672	491	–	204
Colorado	999,789	364,573	484,598	128,483	15,592	6,487	–	56
New Mexico	563,376	183,579	199,496	142,167	5,114	30,464	–	2,555
Arizona	1,265,513	518,463	445,812	274,651	12,453	10,501	–	3,634
Utah	655,605	238,398	189,470	196,466	5,460	25,779	–	31
Nevada	553,102	231,899	160,171	149,092	4,679	7,262	–	–
Mountain	**4,995,293**	**1,876,044**	**1,736,040**	**1,242,267**	**51,308**	**82,586**	**–**	**7,048**
Washington	916,358	509,800	285,298	111,954	9,307	–	–	–
Oregon	1,168,171	468,031	392,212	294,148	13,119	300	–	361
California	10,252,522	3,266,358	4,030,863	2,766,527	117,513	26,924	15,512	28,825
Pacific	**12,337,051**	**4,244,189**	**4,708,372**	**3,172,629**	**139,939**	**27,224**	**15,512**	**29,186**
Alaska	21,840	8,378	8,220	4,684	110	401	48	–
Hawaii	702,860	217,443	184,472	294,643	6,303	–	–	–
Alaska & Hawaii	**724,700**	**225,820**	**192,691**	**299,327**	**6,412**	**401**	**48**	**–**

Note: Total may not equal sum of components due to independent rounding.
p Preliminary.
** Less than five hundred dollars.*

TABLE 60B

REVENUES

INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND CLASS OF SERVICE

YEAR 1983r—THOUSANDS OF DOLLARS

Division/State	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
Total United States	**$102,865,220**	**$39,067,481**	**$31,336,661**	**$29,275,314**	**$1,057,872**	**$1,899,057**	**$126,300**	**$102,536**
Maine	515,570	212,740	117,872	169,986	8,691	6,282	—	—
New Hampshire	473,411	208,645	96,863	156,836	7,385	3,682	—	—
Vermont	200,592	86,287	40,063	61,880	1,782	10,580	—	—
Massachusetts	2,469,764	934,559	970,747	490,708	47,137	22,233	4,380	—
Rhode Island	427,087	171,372	145,175	96,531	6,549	7,461	—	—
Connecticut	1,757,347	734,784	613,071	378,005	29,196	—	2,291	—
New England	**5,843,770**	**2,348,387**	**1,983,791**	**1,353,944**	**100,740**	**50,237**	**6,671**	—
New York	8,881,946	3,281,928	3,839,976	1,478,860	81,087	185,656	12,803	1,636
New Jersey	4,375,506	1,672,878	1,573,534	1,061,403	65,504	—	326	1,863
Pennsylvania	5,987,361	2,266,438	1,459,350	2,131,462	75,038	8,572	42,308	4,193
Middle Atlantic	**19,244,814**	**7,221,244**	**6,872,860**	**4,671,725**	**221,630**	**194,227**	**55,437**	**7,691**
Ohio	5,896,720	2,169,121	1,508,917	2,006,803	49,442	157,947	3,343	1,146
Indiana	2,388,918	827,291	437,705	1,089,976	24,263	6,261	1,349	2,073
Illinois	6,301,649	2,382,700	1,921,779	1,617,224	38,577	319,951	21,283	136
Michigan	3,795,340	1,326,217	978,421	1,406,564	44,351	35,712	—	4,075
Wisconsin	1,955,784	783,816	583,863	550,757	24,977	10,968	—	1,403
East North Central	**20,338,411**	**7,489,146**	**5,430,686**	**6,671,324**	**181,610**	**530,839**	**25,974**	**8,832**
Minnesota	1,275,673	409,434	208,009	629,329	15,629	12,924	—	349
Iowa	1,155,619	473,179	312,638	336,118	15,925	17,728	—	30
Missouri	1,773,161	761,256	628,720	342,870	19,941	20,099	—	274
North Dakota	197,969	90,163	48,681	51,974	2,994	4,054	—	103
South Dakota	172,659	79,625	61,192	27,651	2,472	1,719	—	*
Nebraska	—	—	—	—	—	—	—	—
Kansas	958,305	405,363	315,906	223,373	12,216	1,320	—	128
West North Central	**5,533,386**	**2,219,020**	**1,575,146**	**1,611,315**	**69,177**	**57,844**	—	**883**
Delaware	330,783	126,330	93,075	108,599	2,568	—	—	211
Maryland	2,024,752	835,162	549,584	600,511	30,329	816	6,736	1,613
District of Columbia	500,622	76,242	262,506	137,545	11,695	—	12,634	—
Virginia	2,718,082	1,192,019	738,697	500,426	25,524	260,246	1,171	—
West Virginia	913,742	359,345	208,335	339,134	5,196	1,682	—	49
North Carolina	2,767,677	1,110,081	704,767	901,869	18,566	32,086	—	307
South Carolina	1,495,946	541,523	343,017	586,058	6,876	18,108	—	364
Georgia	2,246,495	748,615	697,282	774,369	18,774	3,889	3,566	—
Florida	5,131,771	2,737,801	1,646,713	563,025	43,994	133,070	—	7,167
South Atlantic	**18,129,870**	**7,727,118**	**5,243,976**	**4,511,537**	**163,524**	**449,897**	**24,107**	**9,712**
Kentucky	1,156,536	435,324	277,538	307,029	9,278	126,710	—	656
Tennessee	54,432	24,626	11,817	16,484	285	1,219	—	—
Alabama	1,668,662	629,478	398,827	631,440	8,825	—	—	92
Mississippi	690,238	253,127	204,109	210,797	6,926	15,278	—	—
East South Central	**3,569,868**	**1,342,555**	**892,292**	**1,165,751**	**25,314**	**143,207**	—	**748**
Arkansas	882,250	361,383	202,641	291,824	6,071	20,332	—	—
Louisiana	2,556,882	845,635	537,556	1,011,900	19,966	84,006	—	57,819
Oklahoma	1,331,056	557,073	374,003	318,191	8,387	73,403	—	—
Texas	9,561,350	3,367,657	2,489,640	3,452,374	64,488	186,308	—	883
West South Central	**14,331,538**	**5,131,748**	**3,603,839**	**5,074,289**	**98,912**	**364,050**	—	**58,702**
Montana	222,503	86,465	69,888	61,123	3,218	1,408	—	401
Idaho	419,223	158,157	124,607	133,419	2,970	70	—	—
Wyoming	212,789	47,172	42,903	120,615	1,421	489	—	189
Colorado	861,821	320,832	415,914	104,270	14,872	5,879	—	54
New Mexico	486,986	160,166	167,893	122,736	4,832	29,022	—	2,337
Arizona	1,093,649	441,187	392,035	237,969	10,274	10,041	—	2,142
Utah	582,807	213,043	165,244	177,252	5,296	21,944	—	28
Nevada	532,080	212,144	138,156	166,510	5,352	9,918	—	—
Mountain	**4,411,857**	**1,639,166**	**1,516,640**	**1,123,893**	**48,235**	**78,771**	—	**5,151**
Washington	722,940	397,966	227,915	89,259	7,801	—	—	—
Oregon	981,460	394,954	322,262	251,833	11,819	274	—	317
California	9,078,645	2,942,434	3,493,427	2,468,360	122,911	26,944	14,071	10,498
Pacific	**10,783,045**	**3,735,354**	**4,043,604**	**2,809,452**	**142,531**	**27,218**	**14,071**	**10,816**
Alaska	22,137	8,831	8,012	2,392	95	2,766	41	—
Hawaii	656,525	204,912	165,816	279,692	6,105	—	—	—
Alaska & Hawaii	**678,661**	**213,744**	**173,827**	**282,084**	**6,200**	**2,766**	**41**	—

Note: Total may not equal sum of components due to independent rounding.

r Revised.

** Less than five hundred dollars.*

TABLE 61

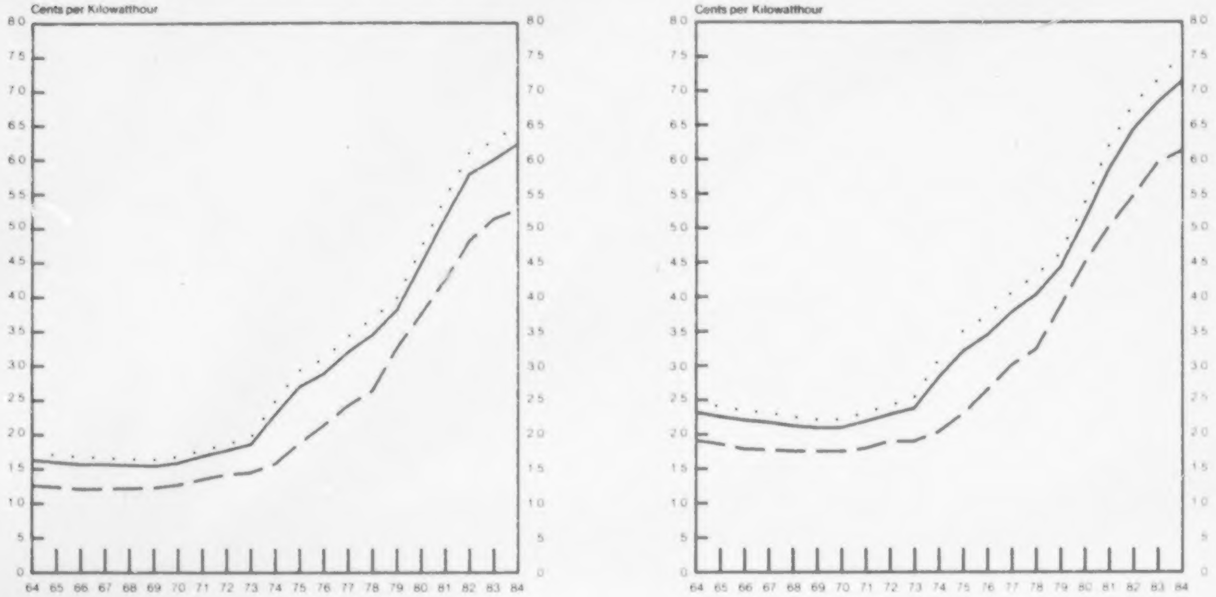
REVENUES
TOTAL ELECTRIC UTILITY INDUSTRY

BY QUARTER AND CLASS OF SERVICE
1979-1984—THOUSANDS OF DOLLARS

Year—Quarter	Total from Ultimate Customers	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Inter-depart-mental
YEAR—1984p								
First Quarter	$ 34,604,278	$14,298,660	$ 9,535,731	$ 9,573,949	$ 340,992	$ 735,441	$ 76,659	$ 42,846
Second Quarter	33,182,566	12,273,018	9,679,445	10,054,544	333,039	724,575	71,406	46,539
Third Quarter	40,120,533	16,184,391	11,867,519	10,779,509	349,057	804,400	78,113	57,544
Fourth Quarter	34,402,362	12,993,896	10,117,466	10,051,402	344,715	759,920	77,039	57,924
Total	**$142,309,739**	**$55,749,966**	**$41,200,161**	**$40,459,404**	**$1,367,803**	**$3,024,335**	**$303,217**	**$204,853**
YEAR—1983r								
First Quarter	$ 30,583,012	$12,412,872	$ 8,510,712	$ 8,526,308	$ 334,860	$ 686,136	$ 77,160	$ 34,963
Second Quarter	29,337,252	10,887,230	8,574,493	8,778,599	316,158	673,477	67,335	39,960
Third Quarter	37,733,929	15,847,346	10,820,922	9,848,254	335,140	761,923	73,698	46,645
Fourth Quarter	31,934,609	12,078,798	9,197,249	9,458,469	338,797	742,501	78,573	40,221
Total	**$129,588,801**	**$51,226,246**	**$37,103,377**	**$36,611,630**	**$1,324,955**	**$2,864,037**	**$296,766**	**$161,790**
YEAR—1982								
First Quarter	$ 30,463,093	$12,200,151	$ 8,280,893	$ 8,899,615	$ 318,995	$ 642,501	$ 72,685	$ 48,253
Second Quarter	28,541,959	10,501,618	8,055,672	8,907,001	302,569	664,163	71,559	39,377
Third Quarter	33,376,269	13,260,202	9,542,893	9,441,965	287,525	714,244	80,494	48,946
Fourth Quarter	29,202,910	11,226,156	8,271,382	8,633,164	345,341	612,841	67,013	47,013
Total	**$121,584,231**	**$47,188,127**	**$34,150,840**	**$35,881,745**	**$1,254,430**	**$2,633,749**	**$291,751**	**$183,589**
YEAR—1981								
First Quarter	$ 25,682,789r	$10,110,046	$ 7,089,319	$ 7,546,365	$ 296,607	$ 544,260	$ 62,824r	$ 33,368
Second Quarter	26,237,122r	9,710,858r	7,438,965	8,162,872	289,770	538,458	56,853r	39,346
Third Quarter	31,854,949r	12,784,247	9,067,498	8,996,668	289,742	612,061	56,506r	48,227
Fourth Quarter	27,226,313r	10,219,306	7,729,540	8,324,188	292,572	552,528	62,371r	45,808
Total	**$111,001,173r**	**$42,824,457r**	**$31,325,322**	**$33,030,093**	**$1,168,691**	**$2,247,307**	**$238,554r**	**$166,749**
YEAR—1980								
First Quarter	$ 22,255,055	$ 9,012,476	$ 6,139,359	$ 6,343,392	$ 248,705	$ 423,601	$ 52,174	$ 35,348
Second Quarter	21,956,565	8,176,526	6,380,759	6,636,811	255,417	430,125	49,864	27,063
Third Quarter	27,130,771	11,255,679	7,907,105	7,130,519	263,211	486,375	52,362	35,520
Fourth Quarter	24,119,990	9,136,211	6,942,740	7,206,048	273,675	470,964	53,283	37,069
Total	**$ 95,462,381**	**$37,580,892**	**$27,369,963**	**$27,316,770**	**$1,041,008**	**$1,811,065**	**$207,683**	**$135,000**
YEAR—1979								
First Quarter	$ 19,328,205	$ 7,927,947	$ 5,199,593	$ 5,540,983	$ 222,305	$ 357,596	$ 48,594	$ 31,187
Second Quarter	18,613,859	6,798,472	5,260,442	5,894,246	224,518	354,080	48,527	33,574
Third Quarter	21,702,136	8,592,823	6,189,947	6,217,460	229,159	398,763	43,570	30,414
Fourth Quarter	19,996,037	7,479,451	5,614,374	6,172,798	242,175	406,894	47,937	32,408
Total	**$ 79,640,237**	**$30,798,693**	**$22,264,356**	**$23,825,487**	**$ 918,157**	**$1,517,333**	**$188,628**	**$127,583**

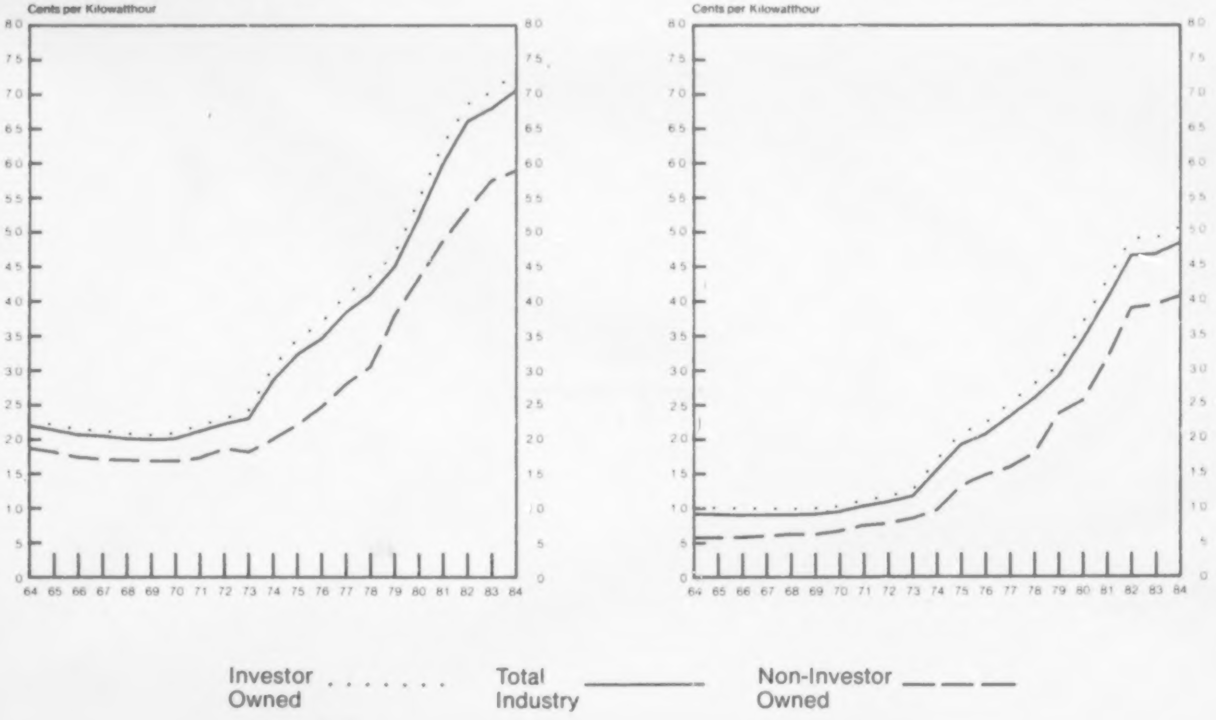
Note: Total may not equal sum of components due to independent rounding.
p Preliminary. r Revised.

CHART VIII-C
AVERAGE REVENUES PER KWH SOLD



TOTAL ULTIMATE CUSTOMERS

RESIDENTIAL CUSTOMERS



COMMERCIAL CUSTOMERS

INDUSTRIAL CUSTOMERS

Based on sales data in Tables 38 and 39, page 44, and revenue data in Tables 56 and 57, page 64.

TABLE 62

AVERAGE REVENUES PER KILOWATTHOUR SOLD TOTAL ELECTRIC UTILITY INDUSTRY

CENTS PER KILOWATTHOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1984p	**7.14¢**	**7.06¢**	**4.84¢**	**9.68¢**	**4.96¢**	**6.76¢**	**6.23¢**
1983r	6.83	6.80	4.68	9.50	5.00	6.90	6.00
1982	6.44	6.61	4.66	8.81	4.72	6.80	5.79
1981	5.86r	6.00	4.03	7.96	4.18	5.67r	5.16r
1980	5.12	5.22	3.44	7.02	3.75	4.86	4.49
1979	4.43	4.50	2.91	6.21	3.06	4.43	3.82
1978	4.03	4.10	2.59	5.74	2.73	3.92	3.46
1977	3.78	3.84	2.33	5.39	2.69	3.46	3.21
1976	3.45	3.46	2.07	5.03	2.44	3.78	2.89
1975	3.21	3.23	1.92	4.74	2.24	3.72	2.70
1974	2.83	2.85	1.55	4.31	1.92	3.43	2.30
1973	2.38	2.30	1.17	3.83	1.47	2.20	1.86
1972	2.29	2.22	1.09	3.69	1.37	1.92	1.77
1971	2.19	2.12	1.03	3.53	1.29	1.72	1.69
1970	2.10	2.01	0.95	3.38	1.20	1.49	1.59
1969	2.09	1.99	0.91	3.25	1.16	1.39	1.54
1968	2.12	2.00	0.90	3.18	1.18	1.35	1.55
1967	2.17	2.04	0.90	3.12	1.19	1.33	1.56
1966	2.20	2.06	0.89	3.05	1.24	1.31	1.56
1965	2.25	2.13	0.90	2.99	1.34	1.31	1.59
1964	2.31	2.19	0.91	2.99	1.35	1.31	1.62

Based on sales data in Table 38 and revenue data in Table 56. p Preliminary. r Revised.

TABLE 63

AVERAGE REVENUES PER KILOWATTHOUR SOLD INVESTOR-OWNED ELECTRIC UTILITIES

CENTS PER KILOWATTHOUR

Year	Residential	Commercial	Industrial	Street and Highway Lighting	Other Public Authorities	Railroads and Railways	Total Ultimate Customers
1984p	**7.53¢**	**7.33¢**	**5.07¢**	**10.80¢**	**5.29¢**	**6.93¢**	**6.53¢**
1983r	7.15	7.04	4.90	10.13	5.22	6.55	6.27
1982	6.81	6.86	4.91	9.54	4.80	6.77	6.10
1981	6.19	6.28	4.29	8.55	4.36	6.20	5.45
1980	5.36	5.47	3.68	7.58	3.95	5.17	4.72
1979	4.63	4.68	3.06	6.60	3.33	3.80	3.99
1978	4.31	4.36	2.80	6.18	2.96	3.59	3.70
1977	4.06	4.10	2.52	5.79	2.90	3.68	3.44
1976	3.73	3.69	2.23	5.43	2.69	3.82	3.11
1975	3.51	3.46	2.09	5.14	2.51	3.79	2.94
1974	3.09	3.05	1.70	4.66	2.17	3.48	2.50
1973	2.54	2.42	1.26	4.12	1.61	2.22	1.97
1972	2.42	2.30	1.17	3.95	1.50	1.94	1.86
1971	2.32	2.21	1.11	3.78	1.42	1.73	1.78
1970	2.22	2.09	1.03	3.62	1.33	1.51	1.68
1969	2.21	2.06	0.99	3.51	1.29	1.40	1.63
1968	2.25	2.08	0.98	3.41	1.31	1.36	1.64
1967	2.31	2.12	0.99	3.36	1.32	1.34	1.66
1966	2.34	2.14	0.99	3.30	1.37	1.32	1.67
1965	2.40	2.21	1.00	3.26	1.40	1.32	1.70
1964	2.45	2.27	1.02	3.24	1.41	1.31	1.73

Based on sales data in Table 39 and revenue data in Table 57. p Preliminary. r Revised.

TABLE 64

AVERAGE ANNUAL REVENUE PER CUSTOMER

TOTAL ELECTRIC UTILITY INDUSTRY				INVESTOR-OWNED ELECTRIC UTILITIES			
Year	Total Ultimate Customers	Residential	Commercial	Year	Total Ultimate Customers	Residential	Commercial
1984p	**$1,450.45**	**$642.23**	**$3,948.62**	**1984p**	**$1,511.40**	**$640.07**	**$4,340.02**
1983r	1,348.80	601.77	3,660.14	1983r	1,397.10	599.44	4,011.41
1982	1,285.29	563.09	3,452.36	1982	1,338.79	562.54	3,867.11
1981	1,188.44r	517.39r	3,206.52	1981	1,239.87	514.38	3,499.79
1980	1,040.22	461.81	2,848.00	1980	1,083.26	457.29	3,022.55
1979	897.17	391.30	2,394.04	1979	928.41	387.34	2,555.09
1978	807.12	356.74	2,176.91	1978	858.50	363.56	2,384.37
1977	739.86	328.99	2,031.41	1977	789.43	336.24	2,234.30
1976	646.33	288.39	1,754.26	1976	692.11	297.14	1,942.05
1975	579.03	262.26	1,579.55	1975	626.39	275.86	1,763.39
1974	493.43	223.73	1,327.40	1974	534.25	234.33	1,474.97
1973	408.14	192.35	1,096.55	1973	433.66	197.38	1,197.68
1972	371.01	176.39	988.78	1972	391.66	179.49	1,071.15
1971	336.46	161.49	888.75	1971	354.57	163.64	961.77
1970	307.36	148.58	803.54	1970	321.42	149.42	861.21
1969	285.99	137.45	735.27	1969	298.71	138.06	784.21
1968	269.59	128.53	694.31	1968	281.36	128.95	739.04
1967	254.90	120.85	652.20	1967	264.84	120.93	688.26
1966	244.39	115.65	620.21	1966	255.02	116.19	655.03
1965	233.62	111.11	584.66	1965	243.97	111.32	617.08
1964	226.80	108.44	553.36	1964	236.15	108.28	580.31

Based on revenue data in Tables 56 and 57, and average number of customers per period. p Preliminary. r Revised.

TABLE 65A

REVENUE AND USE PER TOTAL ULTIMATE CUSTOMER

BY STATE—YEAR 1984p

	Total Electric Utility Industry			Investor-Owned Electric Utilities		
Division/State	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$1,450.45**	**6.23¢**	**23,295**	**$1,511.40**	**6.53¢**	**23,162**
Maine	1,132.79	6.52	17,383	1,149.92	6.49	17,727
New Hampshire	1,267.89	8.45	15,005	1,349.46	8.45	15,973
Vermont	1,079.82	6.46	16,727	1,121.97	6.42	17,484
Massachusetts	1,424.32	8.94	15,939	1,435.86	8.98	15,982
Rhode Island	1,209.62	8.75	13,828	1,213.46	8.74	13,882
Connecticut	1,639.16	9.14	17,927	1,633.32	9.24	17,673
New England	**1,400.47**	**8.55**	**16,379**	**1,417.20**	**8.59**	**16,503**
New York	1,526.97	9.07	16,828	1,450.01	9.87	14,698
New Jersey	1,618.03	9.10	17,786	1,626.15	9.12	17,828
Pennsylvania	1,436.28	6.81	21,101	1,465.80	6.81	21,537
Middle Atlantic	**1,515.34**	**8.21**	**18,457**	**1,491.94**	**8.48**	**17,599**
Ohio	1,584.57	5.72	27,724	1,654.32	5.68	29,149
Indiana	1,470.31	5.57	26,380	1,616.37	5.52	29,282
Illinois	1,588.67	7.14	21,815	1,579.84	7.13	22,150
Michigan	1,201.74	6.37	18,868	1,236.61	6.42	19,247
Wisconsin	1,133.12	5.67	19,980	1,180.64	5.80	20,372
East North Central	**1,423.68**	**6.17**	**23,080**	**1,480.17**	**6.18**	**23,947**
Minnesota	1,130.02	5.27	21,454	1,260.87	4.96	25,431
Iowa	1,286.43	6.40	20,109	1,375.50	6.51	21,142
Missouri	1,132.84	5.50	20,582	1,243.37	5.49	22,657
North Dakota	1,270.61	5.75	22,099	1,105.92	5.92	18,692
South Dakota	986.99	5.70	17,314	1,067.19	6.31	16,923
Nebraska	1,125.98	5.39	20,888	—	—	—
Kansas	1,412.15	6.62	21,342	1,432.29	6.32	22,670
West North Central	**1,197.08**	**5.76**	**20,771**	**1,292.25**	**5.71**	**22,630**
Delaware	1,710.69	7.00	24,426	1,825.22	6.82	26,782
Maryland	1,423.04	6.03	23,618	1,443.06	5.96	24,215
District of Columbia	2,622.07	6.72	39,017	2,622.07	6.72	39,017
Virginia	1,459.82	5.81	25,144	1,535.32	5.79	26,537
West Virginia	1,190.87	4.61	25,851	1,196.67	4.60	26,002
North Carolina	1,496.03	5.54	26,988	1,695.60	5.61	30,231
South Carolina	1,676.45	5.16	32,515	1,933.76	5.22	37,026
Georgia	1,396.16	5.64	24,747	1,778.00	5.76	30,848
Florida	1,462.46	7.43	19,676	1,489.45	7.37	20,219
South Atlantic	**1,476.34**	**6.07**	**24,318**	**1,587.05**	**6.07**	**26,143**
Kentucky	1,583.78	4.75	33,366	1,481.30	4.40	33,651
Tennessee	1,692.94	4.79	35,313	1,662.75	4.63	35,929
Alabama	1,684.43	5.52	30,506	1,756.02	5.76	30,481
Mississippi	1,345.58	5.59	24,091	1,567.86	5.69	27,536
East South Central	**1,605.03**	**5.07**	**31,647**	**1,616.40**	**5.19**	**31,132**
Arkansas	1,372.40	5.77	23,780	1,535.75	5.45	28,165
Louisiana	1,825.90	5.34	34,185	2,048.15	5.19	39,476
Oklahoma	1,292.28	5.54	23,307	1,370.09	5.27	25,975
Texas	1,937.61	6.21	31,198	2,167.01	6.07	35,688
West South Central	**1,777.34**	**5.95**	**29,894**	**1,988.95**	**5.78**	**34,438**
Montana	994.25	3.38	29,451	818.73	3.39	24,163
Idaho	1,225.78	3.22	38,075	1,285.37	3.35	38,400
Wyoming	1,690.36	4.22	40,101	1,566.69	3.60	43,506
Colorado	1,026.69	5.89	17,436	1,057.67	5.99	17,666
New Mexico	1,278.92	6.76	18,911	1,382.31	7.01	19,715
Arizona	1,684.75	6.96	24,200	1,727.05	7.58	22,770
Utah	1,423.13	6.01	23,681	1,516.77	6.34	23,931
Nevada	1,444.20	5.37	26,911	1,459.75	5.81	25,138
Mountain	**1,327.31**	**5.48**	**24,224**	**1,345.18**	**5.59**	**24,048**
Washington	1,244.76	3.04	40,951	1,060.38	4.28	24,760
Oregon	1,281.56	4.11	31,167	1,229.64	4.72	26,042
California	1,225.99	7.09	17,303	1,291.36	7.80	16,549
Pacific	**1,233.77**	**5.61**	**22,000**	**1,264.88**	**6.95**	**18,202**
Alaska	1,525.30	8.41	18,144	1,346.58	10.03	13,430
Hawaii	2,183.35	10.64	20,518	2,183.35	10.64	20,518
Alaska & Hawaii	**1,930.87**	**9.85**	**19,607**	**2,143.21**	**10.62**	**20,178**

p Preliminary.

TABLE 65B

REVENUE AND USE PER TOTAL ULTIMATE CUSTOMER

BY STATE—YEAR 1983r

	Total Electric Utility Industry			Investor-Owned Electric Utilities		
Division/State	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$1,348.80**	**6.00¢**	**22,479**	**$1,397.10**	**6.27¢**	**22,293**
Maine	938.62	5.92	16,610	994.02	5.88	16,914
New Hampshire	1,178.24	8.02	14,695	1,246.17	7.98	15,615
Vermont	1,018.25	6.07	16,766	1,047.89	5.97	17,564
Massachusetts	1,248.22	8.12	15,373	1,236.27	8.06	15,344
Rhode Island	1,120.94	8.30	13,510	1,124.11	8.29	13,562
Connecticut	1,446.80	8.40	17,225	1,449.01	8.45	17,151
New England	**1,242.81**	**7.85**	**15,830**	**1,248.55**	**7.83**	**15,954**
New York	1,473.61	8.89	16,573	1,385.90	9.60	14,443
New Jersey	1,515.57	8.69	17,450	1,522.38	8.70	17,489
Pennsylvania	1,292.61	6.38	20,245	1,317.09	6.38	20,648
Middle Atlantic	**1,421.60**	**7.91**	**17,983**	**1,391.64**	**8.13**	**17,116**
Ohio	1,471.62	5.78	25,460	1,530.43	5.75	26,637
Indiana	1,289.21	5.03	25,614	1,393.37	4.92	28,331
Illinois	1,544.38	7.26	21,260	1,513.08	7.02	21,555
Michigan	1,114.60	6.12	18,214	1,140.19	6.15	18,535
Wisconsin	1,109.40	5.70	19,474	1,155.55	5.84	19,779
East North Central	**1,344.64**	**6.10**	**22,041**	**1,378.55**	**6.05**	**22,784**
Minnesota	1,084.24	5.30	20,457	1,199.88	5.02	23,886
Iowa	1,192.20	5.93	20,102	1,252.40	5.94	21,075
Missouri	1,119.57	5.57	20,103	1,230.93	5.58	22,062
North Dakota	1,167.00	5.46	21,357	1,034.59	5.71	18,116
South Dakota	955.66	5.59	17,095	1,045.85	6.25	16,728
Nebraska	1,041.75	5.19	20,086	—	—	—
Kansas	1,345.71	6.38	21,081	1,349.86	6.04	22,338
West North Central	**1,143.87**	**5.65**	**20,251**	**1,231.62**	**5.61**	**21,970**
Delaware	1,687.76	6.99	24,139	1,795.37	6.80	26,422
Maryland	1,364.55	5.98	22,802	1,384.22	5.93	23,360
District of Columbia	2,477.48	6.57	37,701	2,477.48	6.57	37,701
Virginia	1,434.56	5.82	24,630	1,517.92	5.82	26,101
West Virginia	1,127.90	4.64	24,312	1,133.25	4.63	24,450
North Carolina	1,396.89	5.20	26,882	1,555.19	5.20	29,928
South Carolina	1,560.08	4.87	32,029	1,783.02	4.87	36,606
Georgia	1,290.14	5.31	24,276	1,629.59	5.42	30,048
Florida	1,315.39	6.75	19,488	1,319.96	6.58	20,056
South Atlantic	**1,376.09**	**5.76**	**23,906**	**1,470.26**	**5.73**	**25,665**
Kentucky	1,546.71	4.57	33,867	1,307.78	4.61	28,342
Tennessee	1,595.81	4.59	34,800	1,570.09	4.75	33,052
Alabama	1,587.90	5.58	28,440	1,657.75	5.79	28,632
Mississippi	1,239.03	5.38	23,017	1,438.30	5.43	26,489
East South Central	**1,521.48**	**4.93**	**30,875**	**1,484.04**	**5.27**	**28,161**
Arkansas	1,244.92	5.43	22,910	1,373.49	5.11	26,877
Louisiana	1,560.40	5.03	31,034	1,914.27	5.09	37,574
Oklahoma	1,332.73	5.30	25,156	1,312.50	5.13	25,599
Texas	1,844.19	6.14	30,244	2,069.68	6.02	34,592
West South Central	**1,668.68**	**5.79**	**28,959**	**1,882.78**	**5.68**	**33,266**
Montana	859.54	3.31	25,950	776.66	3.29	23,588
Idaho	1,099.76	3.00	36,714	1,151.90	3.10	37,110
Wyoming	1,486.46	3.89	38,233	1,361.12	3.31	41,162
Colorado	908.26	5.60	16,223	909.74	5.60	16,258
New Mexico	1,210.05	6.70	18,051	1,267.76	6.77	18,734
Arizona	1,547.91	6.57	23,577	1,573.98	6.91	22,771
Utah	1,299.38	5.65	23,001	1,383.81	5.88	23,530
Nevada	1,443.35	5.61	25,741	1,466.33	6.08	24,132
Mountain	**1,208.33**	**5.24**	**23,045**	**1,219.73**	**5.27**	**23,164**
Washington	1,053.76	2.60	38,677	859.02	3.59	23,928
Oregon	1,098.33	3.74	29,379	1,031.30	4.12	25,007
California	1,112.66	6.73	16,540	1,166.28	7.36	15,845
Pacific	**1,103.10**	**5.27**	**20,810**	**1,125.87**	**6.45**	**17,465**
Alaska	1,023.53	7.66	13,366	1,707.03	9.77	17,478
Hawaii	2,075.50	10.22	20,315	2,075.50	10.22	20,315
Alaska & Hawaii	**1,621.47**	**9.36**	**17,316**	**2,060.99**	**10.20**	**20,203**

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TABLE 66A

REVENUE AND USE PER RESIDENTIAL CUSTOMER

BY STATE—YEAR 1984p

	Total Electric Utility Industry			Investor-Owned Electric Utilities		
Division/State	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$642.23**	**7.14¢**	**8,993**	**$640.07**	**7.53¢**	**8,495**
Maine	525.47	7.65	6,865	527.27	7.63	6,913
New Hampshire	655.95	9.36	7,008	674.05	9.45	7,133
Vermont	553.96	6.66	8,318	553.78	6.62	8,361
Massachusetts	598.35	9.56	6,259	594.01	9.64	6,159
Rhode Island	528.13	9.43	5,603	528.26	9.42	5,608
Connecticut	733.03	10.05	7,297	739.99	10.11	7,317
New England	**621.86**	**9.29**	**6,692**	**624.59**	**9.37**	**6,669**
New York	591.83	10.74	5,508	598.75	11.02	5,433
New Jersey	685.88	10.42	6,580	686.42	10.48	6,550
Pennsylvania	615.88	7.98	7,713	613.64	8.01	7,662
Middle Atlantic	**619.14**	**9.57**	**6,471**	**621.82**	**9.71**	**6,402**
Ohio	648.04	7.53	8,608	648.94	7.62	8,520
Indiana	645.08	6.52	9,892	632.14	6.55	9,646
Illinois	644.73	8.76	7,360	630.30	8.90	7,084
Michigan	451.02	6.91	6,523	454.85	6.93	6,561
Wisconsin	526.21	6.64	7,926	517.00	6.84	7,561
East North Central	**588.73**	**7.45**	**7,902**	**582.65**	**7.58**	**7,688**
Minnesota	523.60	6.41	8,163	435.68	6.14	7,094
Iowa	662.43	7.48	8,861	630.02	7.95	7,925
Missouri	586.19	6.12	9,576	575.82	6.17	9,337
North Dakota	688.85	6.08	11,333	586.91	6.33	9,278
South Dakota	639.49	6.46	9,895	575.83	7.28	7,906
Nebraska	589.28	6.01	9,809	—	—	—
Kansas	658.15	7.58	8,688	656.38	7.36	8,920
West North Central	**600.56**	**6.60**	**9,100**	**566.34**	**6.75**	**8,394**
Delaware	733.61	9.09	8,073	761.10	9.45	8,052
Maryland	661.15	6.96	9,506	652.14	6.90	9,451
District of Columbia	443.02	6.45	6,872	443.02	6.45	6,872
Virginia	739.41	6.64	11,129	745.58	6.66	11,200
West Virginia	528.43	5.60	9,433	529.37	5.60	9,455
North Carolina	762.37	6.69	11,400	782.63	6.61	11,832
South Carolina	777.15	6.54	11,882	811.89	6.62	12,263
Georgia	659.19	6.35	10,386	655.05	6.59	9,938
Florida	871.92	8.17	10,666	881.75	8.17	10,793
South Atlantic	**754.58**	**7.09**	**10,642**	**759.09**	**7.13**	**10,648**
Kentucky	605.16	5.67	10,675	581.17	5.54	10,488
Tennessee	701.08	4.79	14,624	789.80	5.04	15,680
Alabama	743.37	6.33	11,737	741.58	6.90	10,755
Mississippi	664.13	5.94	11,184	670.87	6.09	11,020
East South Central	**682.65**	**5.55**	**12,307**	**669.68**	**6.21**	**10,782**
Arkansas	703.44	7.27	9,672	684.45	7.02	9,747
Louisiana	790.60	6.54	12,085	781.84	6.33	12,342
Oklahoma	680.20	6.32	10,760	647.54	6.00	10,784
Texas	864.70	7.42	11,660	910.01	7.44	12,226
West South Central	**811.86**	**7.11**	**11,418**	**834.29**	**7.04**	**11,852**
Montana	435.78	4.30	10,125	379.57	4.13	9,188
Idaho	596.54	3.56	16,772	614.08	4.02	15,276
Wyoming	492.00	5.55	8,866	417.50	5.11	8,164
Colorado	459.80	6.70	6,860	437.14	7.05	6,197
New Mexico	488.44	8.07	6,051	515.40	8.30	6,209
Arizona	819.21	8.03	10,203	806.96	8.53	9,464
Utah	563.78	7.42	7,603	615.10	8.10	7,590
Nevada	686.38	5.94	11,549	700.58	6.07	11,541
Mountain	**588.25**	**6.43**	**9,145**	**579.16**	**6.63**	**8,738**
Washington	591.75	3.76	15,755	662.11	4.55	14,545
Oregon	576.28	4.36	13,209	565.58	4.51	12,549
California	449.62	7.10	6,331	470.64	7.49	6,286
Pacific	**482.06**	**5.78**	**8,344**	**497.11**	**6.51**	**7,638**
Alaska	780.34	8.66	9,010	641.37	7.24	8,861
Hawaii	781.32	11.83	6,603	781.32	11.83	6,603
Alaska & Hawaii	**780.95**	**10.38**	**7,522**	**775.05**	**11.56**	**6,704**

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TABLE 66B

REVENUE AND USE PER RESIDENTIAL CUSTOMER

BY STATE—YEAR 1983r

	Total Electric Utility Industry			Investor-Owned Electric Utilities		
Division/State	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$601.77**	**6.83¢**	**8,814**	**$599.44**	**7.15¢**	**8,379**
Maine	463.38	7.00	6,620	462.51	6.95	6,658
New Hampshire	611.96	8.93	6,853	625.90	8.96	6,985
Vermont	515.33	6.47	7,965	510.09	6.44	7,920
Massachusetts	534.98	8.74	6,122	522.20	8.70	6,003
Rhode Island	501.47	9.03	5,553	501.37	9.02	5,558
Connecticut	653.58	9.14	7,154	663.36	9.16	7,241
New England	**560.06**	**8.57**	**6,536**	**558.93**	**8.57**	**6,520**
New York	570.21	10.38	5,491	576.90	10.65	5,417
New Jersey	659.04	10.02	6,579	659.29	10.07	6,548
Pennsylvania	560.66	7.40	7,575	557.45	7.41	7,524
Middle Atlantic	**585.08**	**9.12**	**6,416**	**587.48**	**9.26**	**6,348**
Ohio	624.22	7.29	8,561	625.32	7.36	8,501
Indiana	568.96	5.80	9,808	543.25	5.68	9,565
Illinois	658.85	8.71	7,562	631.14	8.64	7,303
Michigan	436.70	6.67	6,551	439.39	6.66	6,602
Wisconsin	524.37	6.58	7,968	517.34	6.79	7,616
East North Central	**572.92**	**7.21**	**7,944**	**563.08**	**7.26**	**7,751**
Minnesota	516.97	6.28	8,231	435.65	6.02	7,238
Iowa	632.37	6.82	9,271	595.10	7.06	8,429
Missouri	599.27	6.17	9,710	602.02	6.27	9,600
North Dakota	650.22	5.80	11,215	559.44	6.12	9,140
South Dakota	621.09	6.27	9,912	571.42	7.11	8,037
Nebraska	567.57	5.79	9,809	—	—	—
Kansas	651.84	7.28	8,952	649.74	7.03	9,247
West North Central	**592.76**	**6.40**	**9,257**	**565.52**	**6.53**	**8,667**
Delaware	727.17	9.14	7,956	756.96	9.52	7,949
Maryland	638.89	6.86	9,312	631.42	6.81	9,265
District of Columbia	429.75	6.31	6,807	429.75	6.31	6,807
Virginia	732.40	6.65	11,009	743.86	6.69	11,116
West Virginia	503.22	5.50	9,150	504.08	5.50	9,171
North Carolina	718.04	6.29	11,424	724.56	6.10	11,873
South Carolina	726.88	6.14	11,837	750.39	6.12	12,258
Georgia	614.92	5.94	10,347	615.63	6.09	10,105
Florida	790.47	7.38	10,713	789.17	7.25	10,885
South Atlantic	**706.88**	**6.67**	**10,598**	**707.53**	**6.65**	**10,642**
Kentucky	596.58	5.61	10,643	566.46	5.43	10,427
Tennessee	667.58	4.63	14,411	793.09	5.01	15,831
Alabama	718.18	6.28	11,439	713.40	6.86	10,400
Mississippi	623.88	5.64	11,058	617.04	5.72	10,780
East South Central	**656.56**	**5.41**	**12,136**	**641.72**	**6.07**	**10,565**
Arkansas	663.81	6.86	9,673	653.35	6.68	9,782
Louisiana	600.75	5.90	10,186	718.56	6.06	11,857
Oklahoma	665.53	6.25	10,647	629.58	5.88	10,702
Texas	799.56	7.26	11,006	842.25	7.31	11,527
West South Central	**734.26**	**6.87**	**10,690**	**775.98**	**6.85**	**11,329**
Montana	397.93	4.20	9,483	357.70	4.17	8,584
Idaho	506.50	3.21	15,797	514.36	3.64	14,127
Wyoming	432.00	5.09	8,492	359.09	4.60	7,803
Colorado	416.27	6.38	6,523	384.24	6.58	5,841
New Mexico	473.58	7.68	6,163	475.33	7.77	6,115
Arizona	760.34	7.39	10,292	725.89	7.69	~~9,441~~
Utah	519.92	6.91	7,521	563.63	7.48	7,539
Nevada	652.27	5.96	10,943	667.47	6.16	10,832
Mountain	**538.25**	**6.06**	**8,881**	**519.36**	**6.21**	**8,369**
Washington	495.20	3.39	14,623	530.43	3.75	14,163
Oregon	503.16	3.91	12,883	475.83	3.97	11,999
California	413.17	6.76	6,112	432.21	7.11	6,082
Pacific	**433.02**	**5.45**	**7,938**	**445.31**	**6.03**	**7,390**
Alaska	663.70	7.78	8,533	827.15	9.08	9,108
Hawaii	749.05	11.29	6,633	749.05	11.29	6,633
Alaska & Hawaii	**711.44**	**9.52**	**7,470**	**751.98**	**11.18**	**6,726**

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TABLE 67A

REVENUE AND USE PER COMMERCIAL CUSTOMER

BY STATE—YEAR 1984p

Division/State	Total Electric Utility Industry			Investor-Owned Electric Utilities		
	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$3,948.62**	**7.06¢**	**55,915**	**$4,340.02**	**7.33¢**	**59,185**
Maine	2,584.43	7.32	35,312	2,649.97	7.31	36,236
New Hampshire	2,320.59	8.77	26,453	2,399.17	8.79	27,294
Vermont	2,087.45	6.78	30,798	2,251.68	6.72	33,520
Massachusetts	5,571.77	9.13	61,043	5,842.70	9.13	63,999
Rhode Island	4,397.60	8.58	51,281	4,415.36	8.57	51,501
Connecticut	6,937.19	9.16	75,746	7,130.12	9.17	77,762
New England	**4,903.53**	**8.88**	**55,223**	**5,114.23**	**8.88**	**57,565**
New York	5,887.72	10.93	53,875	5,992.39	11.06	54,163
New Jersey	5,373.76	9.14	58,795	5,422.23	9.15	59,239
Pennsylvania	3,556.60	7.25	49,085	3,611.39	7.28	49,620
Middle Atlantic	**5,030.28**	**9.41**	**53,451**	**5,112.13**	**9.49**	**53,877**
Ohio	4,355.30	7.07	61,594	4,602.30	7.08	65,040
Indiana	2,925.14	5.45	53,672	3,072.92	5.40	56,872
Illinois	5,477.73	7.80	70,230	5,466.17	7.80	70,045
Michigan	3,571.98	7.31	48,841	3,608.16	7.51	48,047
Wisconsin	3,257.76	6.42	50,740	3,503.76	6.48	54,089
East North Central	**4,139.59**	**7.06**	**58,611**	**4,288.93**	**7.12**	**60,279**
Minnesota	2,159.45	5.56	38,856	1,943.23	5.57	34,866
Iowa	2,735.50	7.37	37,135	2,864.85	7.65	37,433
Missouri	3,720.61	5.61	66,330	4,205.86	5.63	74,755
North Dakota	2,331.57	6.52	35,752	1,886.27	6.61	28,549
South Dakota	2,174.71	5.87	37,062	2,407.12	6.51	36,961
Nebraska	2,462.96	5.80	42,484	—	—	—
Kansas	3,772.34	6.79	55,584	4,368.03	6.37	68,564
West North Central	**2,961.71**	**6.12**	**48,366**	**3,216.95**	**6.16**	**52,248**
Delaware	5,601.80	7.48	74,875	5,930.13	7.35	80,704
Maryland	4,133.08	6.93	59,675	4,136.54	6.89	60,020
District of Columbia	11,585.55	7.21	160,616	11,585.55	7.21	160,616
Virginia	4,279.46	6.10	70,172	4,564.36	6.09	74,977
West Virginia	2,600.18	5.25	49,500	2,613.84	5.25	49,755
North Carolina	3,104.14	5.84	53,151	3,316.57	5.77	57,471
South Carolina	3,188.20	5.82	54,791	3,414.98	5.93	57,601
Georgia	4,097.57	6.16	66,475	5,101.56	6.83	74,659
Florida	4,409.24	7.24	60,921	4,820.63	7.19	67,037
South Atlantic	**4,008.49**	**6.50**	**61,641**	**4,366.32**	**6.57**	**66,495**
Kentucky	2,601.76	5.64	46,151	2,927.92	5.56	52,694
Tennessee	1,793.06	5.52	32,456	3,612.70	5.28	68,414
Alabama	2,903.06	6.67	43,531	3,520.31	6.86	51,291
Mississippi	2,930.41	6.31	46,457	3,484.14	6.29	55,358
East South Central	**2,500.45**	**6.05**	**41,320**	**3,306.03**	**6.25**	**52,881**
Arkansas	2,905.24	6.28	46,259	3,208.67	5.93	54,114
Louisiana	4,005.02	5.92	67,697	4,379.45	6.13	71,400
Oklahoma	3,237.06	5.74	56,367	3,605.39	5.58	64,613
Texas	4,235.11	6.76	62,625	4,750.56	6.61	71,899
West South Central	**3,953.22**	**6.47**	**61,114**	**4,427.67**	**6.37**	**69,504**
Montana	1,791.29	3.88	46,169	1,716.26	3.57	48,119
Idaho	2,508.30	3.84	65,330	2,548.60	3.85	66,114
Wyoming	2,886.66	5.18	55,692	2,114.62	4.50	46,975
Colorado	3,568.71	6.03	59,224	4,391.27	5.88	74,692
New Mexico	3,495.54	7.41	47,144	4,298.19	7.73	55,601
Arizona	5,388.23	7.21	74,759	5,304.06	7.91	67,096
Utah	5,023.96	6.58	76,366	5,280.67	7.33	72,024
Nevada	3,284.03	6.09	53,958	3,385.77	6.26	54,085
Mountain	**3,720.76**	**6.09**	**61,119**	**3,929.89**	**6.15**	**63,892**
Washington	2,614.55	3.46	75,540	3,177.67	4.46	71,289
Oregon	3,045.78	4.78	63,675	3,265.82	5.23	62,425
California	3,856.35	7.87	48,979	4,142.80	8.36	49,558
Pacific	**3,619.39**	**6.73**	**53,791**	**3,980.51**	**7.58**	**52,514**
Alaska	5,334.69	7.84	68,034	2,836.33	12.12	23,404
Hawaii	4,457.88	12.01	37,132	4,457.88	12.01	37,132
Alaska & Hawaii	**4,792.84**	**9.79**	**48,937**	**4,351.75**	**12.01**	**36,234**

p Preliminary.

TABLE 67B

REVENUE AND USE PER COMMERCIAL CUSTOMER

BY STATE—YEAR 1983r

	Total Electric Utility Industry			Investor-Owned Electric Utilities		
Division/State	Avg. Annual Revenue per Customers	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer	Avg. Annual Revenue per Customer	Avg. Revenue per kWh Sold	Avg. Annual kWh Use per Customer
Total United States	**$3,660.14**	**6.80¢**	**53,822**	**$4,011.41**	**7.04¢**	**57,003**
Maine	2,052.96	7.10	28,920	2,101.10	7.08	29,661
New Hampshire	2,121.65	8.47	25,049	2,232.83	8.43	26,485
Vermont	1,964.37	6.50	30,238	2,089.89	6.35	32,903
Massachusetts	4,818.70	8.15	59,130	5,013.90	8.08	62,039
Rhode Island	4,147.77	8.23	50,416	4,164.52	8.22	50,638
Connecticut	6,127.08	8.43	72,646	6,329.58	8.42	75,144
New England	**4,296.17**	**8.13**	**52,814**	**4,468.20**	**8.10**	**55,180**
New York	5,798.18	11.08	52,321	5,902.62	11.22	52,586
New Jersey	4,913.10	8.73	56,280	4,956.25	8.74	56,699
Pennsylvania	3,240.45	6.84	47,362	3,285.04	6.87	47,823
Middle Atlantic	**4,789.54**	**9.28**	**51,629**	**4,866.50**	**9.36**	**52,012**
Ohio	4,158.71	6.90	60,280	4,363.08	6.90	63,257
Indiana	2,474.94	4.80	51,568	2,542.92	4.68	54,353
Illinois	5,346.68	7.92	67,527	5,171.29	7.70	67,121
Michigan	3,294.65	6.95	47,436	3,311.44	7.10	46,673
Wisconsin	3,169.67	6.45	49,177	3,407.57	6.51	52,334
East North Central	**3,922.17**	**6.91**	**56,775**	**4,003.75**	**6.88**	**58,194**
Minnesota	2,035.13	5.46	37,293	1,837.19	5.48	33,507
Iowa	2,530.72	6.81	37,140	2,616.96	6.97	37,521
Missouri	3,475.03	5.67	61,288	3,860.28	5.69	67,799
North Dakota	2,114.66	6.22	33,991	1,747.09	6.39	27,356
South Dakota	2,160.71	5.87	36,786	2,473.42	6.61	37,430
Nebraska	2,185.75	5.54	39,460	—	—	—
Kansas	3,568.05	6.45	55,295	4,077.41	5.99	68,046
West North Central	**2,764.27**	**5.96**	**46,381**	**2,996.64**	**5.99**	**49,994**
Delaware	5,323.02	7.66	69,527	5,541.82	7.55	73,393
Maryland	4,058.63	6.96	58,279	4,058.69	6.94	58,482
District of Columbia	10,732.48	7.07	151,727	10,732.48	7.07	151,727
Virginia	4,185.20	6.13	68,328	4,509.00	6.13	73,568
West Virginia	2,507.25	5.23	47,973	2,518.62	5.23	48,195
North Carolina	2,874.07	5.48	52,404	3,051.96	5.37	56,856
South Carolina	2,974.51	5.45	54,620	3,107.55	5.48	56,661
Georgia	3,765.76	5.80	64,929	4,705.93	6.46	72,886
Florida	3,927.86	6.49	60,535	4,221.32	6.33	66,663
South Atlantic	**3,714.94**	**6.13**	**60,592**	**4,025.23**	**6.16**	**65,314**
Kentucky	2,447.91	5.54	44,151	2,765.62	5.45	50,784
Tennessee	1,741.65	5.19	33,560	3,528.47	5.28	66,791
Alabama	2,752.20	6.65	41,370	3,340.79	6.86	48,724
Mississippi	2,647.50	6.00	44,122	3,218.83	5.98	53,846
East South Central	**2,354.74**	**5.87**	**40,149**	**3,114.52**	**6.13**	**50,790**
Arkansas	2,629.23	5.94	44,260	2,919.56	5.58	52,358
Louisiana	3,752.18	5.51	68,098	4,027.87	5.90	68,241
Oklahoma	3,162.29	5.63	56,160	3,445.70	5.44	63,373
Texas	3,995.79	6.67	59,930	4,529.15	6.55	69,174
West South Central	**3,728.68**	**6.31**	**59,105**	**4,185.15**	**6.25**	**66,943**
Montana	1,737.53	3.88	44,805	1,785.81	3.71	48,080
Idaho	2,314.89	3.62	63,866	2,331.54	3.64	64,107
Wyoming	2,074.98	4.73	43,857	1,900.45	4.19	45,399
Colorado	3,118.22	5.68	54,898	3,792.62	5.44	69,726
New Mexico	3,154.12	6.97	45,263	3,893.54	7.01	55,574
Arizona	4,950.57	6.89	71,861	4,851.02	7.34	66,117
Utah	4,345.72	6.25	69,513	4,733.98	6.76	69,996
Nevada	3,246.86	6.48	50,105	3,381.13	6.65	50,868
Mountain	**3,325.20**	**5.81**	**57,260**	**3,572.59**	**5.78**	**61,812**
Washington	2,221.10	3.06	72,518	2,622.88	3.83	68,397
Oregon	2,632.08	4.19	62,850	2,702.30	4.51	59,906
California	3,452.70	7.49	46,080	3,676.17	7.93	46,334
Pacific	**3,221.13**	**6.32**	**50,969**	**3,496.60**	**7.08**	**49,391**
Alaska	3,497.43	7.76	45,095	4,633.68	12.91	35,883
Hawaii	4,090.98	11.62	35,207	4,090.98	11.62	35,207
Alaska & Hawaii	**3,892.87**	**10.11**	**38,507**	**4,113.19**	**11.67**	**35,234**

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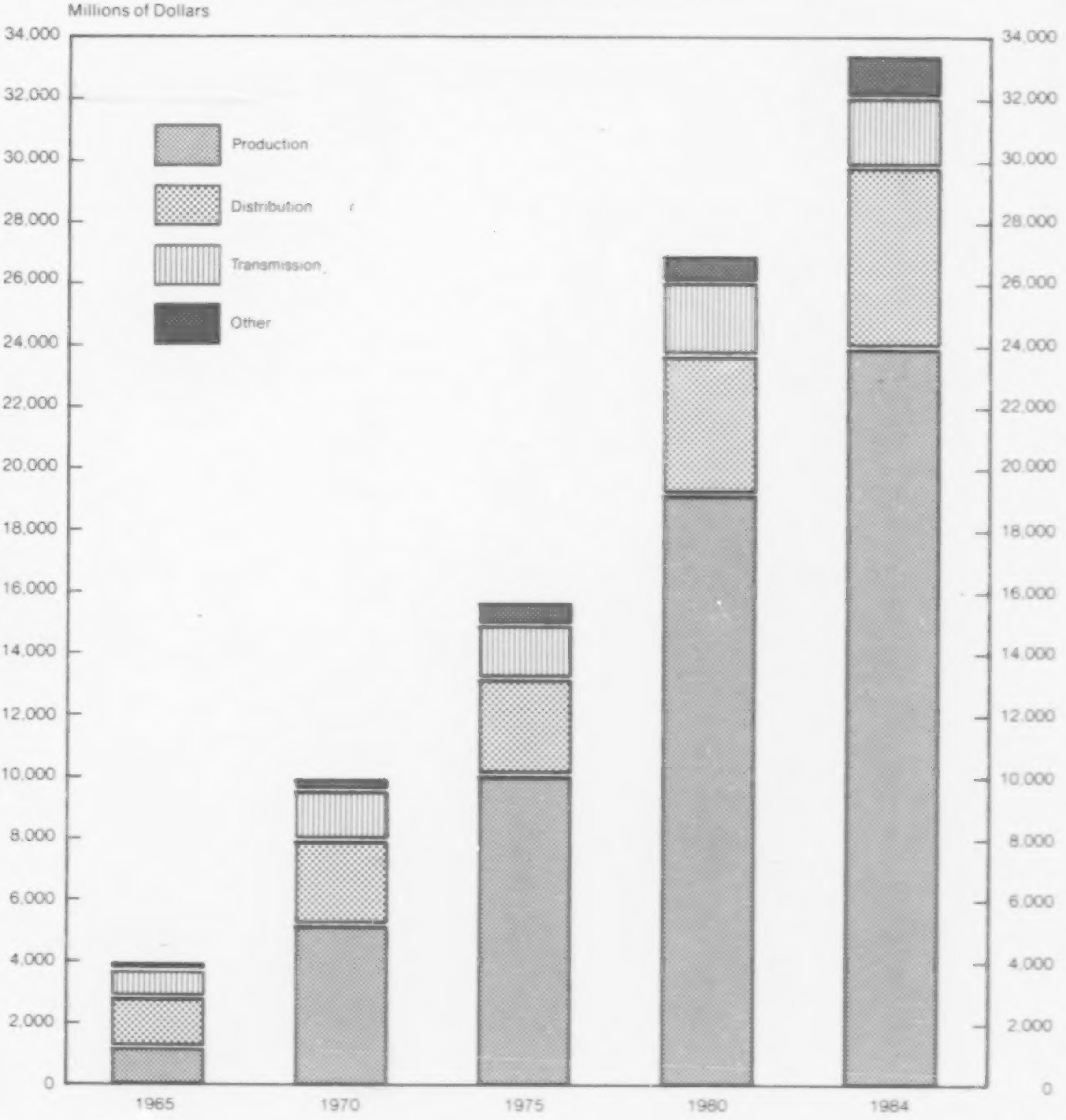
FINANCIAL

SECTION IX

CHART IX-A

CONSTRUCTION EXPENDITURES

INVESTOR-OWNED ELECTRIC UTILITIES



Based on Table 69, page 81.

TABLE 69

CONSTRUCTION EXPENDITURES INVESTOR-OWNED ELECTRIC UTILITIES

BY TYPE OF ELECTRIC UTILITY PLANT
MILLIONS OF DOLLARS

	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974
Production											
Steam	$ 5,569	$ 5,860	$ 7,828	$ 7,221	$ 7,498	$ 7,572	$ 6,664	$ 6,529	$ 5,689	$ 5,062	$ 5,323
Nuclear	~~17,478~~	18,208	16,461	12,785	11,045	9,855	8,813	7,273	5,815	4,545	3,969
Other	893	868	1,050	906	695	854	655	614	460	487	802
Total	**23,939**	**24,935**	**25,339**	**20,912**	**19,238**	**18,281**	**16,132**	**14,416**	**11,964**	**10,094**	**10,094**
Transmission	2,250	2,371	2,203	2,270	2,353	2,090	1,738	1,687	1,832	1,771	2,145
Distribution	5,899	5,021	4,827	4,606	4,483	4,334	3,875	3,390	2,974	3,075	3,583
General/Miscellaneous*	1,355	1,489	1,233	1,336	937	776	1,192	788	590	710	880
Subtotal	**33,443**	**33,816**	**33,602**	**29,124**	**27,011**	**25,481**	**22,937**	**20,281**	**17,380**	**15,650**	**16,702**
Nuclear Fuel	1,842	1,749	1,748	1,566	1,324	1,338	1,093	1,016	798	541	490
GRAND TOTAL	**$35,285**	**$35,565**	**$35,350**	**$30,690**	**$28,335**	**$26,819**	**$24,030**	**$21,297**	**$18,158**	**$16,191**	**$17,192**
AFUDC included in TOTAL	$ 7,923	$ 7,816	$ 6,612	$ 5,358	$ 4,365	$ 3,593	$ 2,717	$ 2,267	$ 1,854	$ 1,676	$ 1,576

	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964
Production										
Steam	$ 4,923	$ 4,306	$ 3,507	$ 2,790	$ 2,227	$ 2,076	$ 1,735	$ 1,294	$ 987	$ N/A
Nuclear	3,270	2,920	2,410	1,641	1,120	679	433	126	56	N/A
Other	662	691	620	818	550	347	311	220	185	N/A
Total	**8,855**	**7,917**	**6,537**	**5,249**	**3,897**	**3,102**	**2,479**	**1,640**	**1,228**	**1,115**
Transmission	1,878	1,749	1,818	1,625	1,555	1,378	1,329	1,161	923	754
Distribution	3,568	3,192	2,869	2,751	2,511	2,299	2,102	1,851	1,666	1,502
General/Miscellaneous*	758	605	633	422	394	339	294	289	238	187
Subtotal	**15,059**	**13,463**	**11,857**	**10,047**	**8,357**	**7,118**	**6,204**	**4,941**	**4,055**	**3,558**
Nuclear Fuel	232	265	361	217	N/A	N/A	N/A	N/A	N/A	N/A
GRAND TOTAL	**$15,291**	**$13,728**	**$12,218**	**$10,264**	**$ 8,357**	**$ 7,118**	**$ 6,204**	**$ 4,941**	**$ 4,055**	**$ 3,558**
AFUDC included in TOTAL	$ 1,277	$ 1,078	$ 809	$ 583	$ 398	$ 270	$ 185	$ 126	$ 92	$ 84

Note: Total may not equal sum of components due to independent rounding.
This table has been restructured based on data submitted to the Institute. Data, compiled on a 50 state basis, now includes nuclear fuel and reflects the amount of AFUDC in the total.
Construction expenditures are, in general, the gross amounts spent for construction of all kinds, including the acquisition of real estate and all necessary equipment.
The figures include money spent for replacements, additions, and betterments (but not for maintenance of existing plant) as well as for new construction.
**Includes intangible plant.*
N/A Not available.

TABLE 70

COMBINED BALANCE SHEETS—YEAR ENDED DECEMBER 31ST
INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1984	1983	1982	1981	1980	1979
ASSETS						
Utility Plant:						
Electric	$372,516	$343,600	$319,723	$290,723	$265,233	$241,401
Accumulated Provision for Depreciation and Amortization	77,938	70,527	64,552	58,783	53,324	49,161
Net Electric Utility Plant	**294,578**	**273,073**	**255,171**	**231,940**	**211,909**	**192,240**
Nuclear Fuel	11,587	9,421	8,056	7,449	6,704	5,788
Accumulated Provision for Amortization of Nuclear Fuel Assemblies	4,219	3,755	3,591	3,324	2,754	2,029
Net Nuclear Fuel	**7,363**	**5,665**	**4,465**	**4,125**	**3,950**	**3,759**
Net Total Electric Utility Plant	**301,946**	**278,738**	**259,636**	**236,065**	**215,859**	**195,999**
Other	18,567	20,058	17,084	16,241	14,673	13,775
Accumulated Provision for Depreciation and Amortization	6,368	6,546	5,462	4,959	4,502	4,130
Net Other Utility Plant	**12,199**	**13,513**	**11,622**	**11,282**	**10,171**	**9,645**
Total Utility Plant	402,670	373,078	344,862	314,413	286,610	260,964
Accumulated Provision for Depreciation and Amortization	88,525	80,828	73,605	67,066	60,580	55,320
Net Total Utility Plant	**314,145**	**292,250**	**271,258**	**247,347**	**226,030**	**205,644**
Other Property and Investment	9,359	8,367	6,656	5,737	4,593	4,006
Total Current and Accrued Assets	37,823	33,196	31,799	28,100	25,928	21,644
Total Deferred Debits*	18,065	12,001	7,486	6,532	5,064	4,465
Total Assets*	**$379,392**	**$345,814**	**$317,198**	**$287,716**	**$261,615**	**$235,759**
LIABILITIES						
Capitalization:						
Common Capital Stock	$ 47,842	$ 44,742	$ 40,491	$ 35,406	$ 32,616	$ 29,179
Other Paid-In Capital Excluding Retained Earnings**	33,886	31,580	27,305	23,838	20,509	18,538
Retained Earnings*	40,423	35,369	30,984	27,511	24,865	23,035
Total Common Capital Stock Equity*	**122,151**	**111,691**	**98,779**	**86,755**	**77,990**	**70,752**
Preferred Stock	29,882	29,479	28,616	26,817	25,755	23,881
Long-Term Debt:						
Mortgage Bonds	108,997	104,244	98,998	93,783	88,579	82,014
Other Long-Term Debt	32,696	28,034	24,694	20,780	16,978	14,244
Total Long-Term Debt	**141,693**	**132,278**	**123,692**	**114,563**	**105,557**	**96,258**
Total Capitalization*	**293,727**	**273,448**	**251,088**	**228,136**	**209,302**	**190,891**
Total Current and Accrued Liabilities	36,851	33,898	33,356	32,395	29,564	25,990
Contribution in Aid of Construction	145	135	127	115	91	82
Deferred Income Taxes	26,438	21,075	18,310	15,931	13,341	10,449
Deferred Investment Tax Credits	14,136	12,059	10,408	8,271	7,133	6,343
Other Deferred Credits and Operating Reserves†	8,096	5,199	3,909	2,869	2,184	2,004
Total Liabilities*	**$379,392**	**$345,814**	**$317,198**	**$287,716**	**$261,615**	**$235,759**

Note: Total may not equal sum of components due to independent rounding.

**Figures revised (1979) due to reclassification of Capital Stock Expense from "Total Deferred Debits" to "Retained Earnings."*

***Includes Premium on Common and Preferred Stock.*

† "Total Deferred Credits and Operating Reserves" has been retitled "Other Deferred Credits and Operating Reserves." Deferred Investment Tax Credits, previously included in "Total Deferred Credits and Operating Reserves," are now shown as a separate item.

TABLE 71

COMBINED INCOME STATEMENTS—YEAR ENDED DECEMBER 31ST INVESTOR-OWNED ELECTRIC UTILITIES

INTERCOMPANY TRANSACTIONS ELIMINATED
MILLIONS OF DOLLARS

	1984	1983	1982	1981	1980	1979
	ELECTRIC DEPARTMENT ONLY					
Operating Revenues	**$120,090**	**$109,446**	**$101,693**	**$ 94,270**	**$80,636**	**$68,152**
Operating Expenses:						
Operation	59,679	55,315	54,118	52,563	44,841	36,592
Maintenance	8,482	7,577	7,124	6,279	5,616	4,788
Depreciation and Depletion	8,792	8,016	7,301	6,690	6,079	5,628
Amortization Charged to Operation	139	117	103	103	40	33
Property Losses Charged to Operation	318	237	184	100	74	45
Taxes Other Than Income Taxes	8,507	7,790	7,151	6,565	5,866	5,300
Federal Income Taxes	3,857	2,845	2,853	1,704	1,242	660
State Income Taxes	705	566	715	379	307	244
Deferred Income Taxes:						
Due to Liberalized Depreciation	3,021	2,685	1,952	1,641	1,409	1,331
Due to Accelerated Amortization	262	61	21	15	29	14
Other Deferred Income Taxes	1,418	1,748	(386)	552	561	480
Investment Tax Credit Adjustments*	2,113	1,828	2,298	1,333	854	1,098
Total Operating Expenses	**97,294**	**88,788**	**83,435**	**77,922**	**66,918**	**56,213**
Operating Income	$ 22,796	$ 20,658	$ 18,258	$ 16,347	$13,718	$11,939
	ALL DEPARTMENTS					
Operating Revenues	**$139,499**	**$129,785**	**$121,062**	**$111,506**	**$95,326**	**$80,021**
Operating Expenses:						
Operation	74,787	71,947	69,982	66,553	56,720	46,050
Maintenance	8,932	8,012	7,556	6,728	6,003	5,137
Depreciation and Depletion	9,476	8,609	7,856	7,221	6,552	6,043
Amortization Charged to Operation	228	187	122	120	55	34
Property Losses Charged to Operation	339	280	186	101	76	46
Taxes Other Than Income Taxes	9,477	8,746	8,044	7,451	6,580	5,897
Federal Income Taxes	4,363	2,973	3,035	1,854	1,328	821
State Income Taxes	806	621	755	405	331	267
Deferred Income Taxes:						
Due to Liberalized Depreciation	3,113	2,773	2,021	1,716	1,480	1,383
Due to Accelerated Amortization	238	121	26	20	30	14
Other Deferred Income Taxes	1,345	1,854	(269)	573	647	478
Investment Tax Credit Adjustments*	2,218	1,911	2,377	1,386	897	1,134
Total Operating Expenses	**115,325**	**108,036**	**101,691**	**94,127**	**80,699**	**67,304**
Operating Income	24,174	21,749	19,371	17,378	14,627	12,717
Other Income (Non-Operating) Net	2,135	1,736	1,831	1,733	1,232	918
Allowance for Other Funds Used During Construction	5,155	4,980	3,889	2,939	2,533	2,189
Income Before Interest Charges (Gross Income)	**31,465**	**28,466**	**25,091**	**22,050**	**18,392**	**15,824**
Interest Charges:						
Interest on Long-Term Debt	13,540	12,430	11,483	10,213	8,488	7,198
Interest on Short-Term Debt	595	536	813	1,261	1,142	597
Amortization of Debt Discount Expense and Premium	98	106	72	59	44	35
Other Interest Expense	600	587	615	438	285	218
Allowance for Borrowed Funds Used During Construction—Credit	(3,061)	(3,009)	(2,917)	(2,550)	(2,094)	(1,538)
Total Interest Charges	11,771	10,649	10,066	9,421	7,865	6,510
Income Before Extraordinary Items	**19,694**	**17,8[illegible]**	**15,025**	**12,628**	**10,527**	**9,314**
Extraordinary Items	(22)	(2[illegible]	121	28	2	(12)
Net Income	**19,672**	**17,589**	**15,146**	**12,656**	**10,529**	**9,302**
Preferred Dividend Charges	2,828	2,715	2,502	2,251	2,042	1,750
Available for Common Stock	16,844	14,874	12,643	10,405	8,487	7,552
Common Dividends	11,077	10,306	8,968	7,587	6,429	5,587
Net Income After Dividends	**$ 5,767**	**$ 4,568**	**$ 3,676**	**$ 2,818**	**$ 2,058**	**$ 1,965**

Note: Total may not equal sum of components due to independent rounding.

**Investment Tax Credit Adjustments, previously included in "Charges in Lieu of Taxes," are now shown as a separate item.*

( ) Denotes credit or negative value.

TABLE 72

DETAIL OF ELECTRIC OPERATION & MAINTENANCE EXPENSES INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1984	1983	1982	1981	1980	1979
Production	$52,288	$48,408	$48,010	$47,281	$40,396	$32,575
Transmission and Distribution	5,614	5,143	4,721	4,172	3,761	3,360
Customer Accounts	2,383	2,224	2,109	1,858	1,592	1,362
Customer Service and Information	745	643	512	396	302	279
Sales	47	37	34	31	33	45
Administrative and General	7,084	6,437	5,855	5,104	4,373	3,759
Total Operation & Maintenance Expenses	**$68,161**	**$62,892**	**$61,242**	**$58,842**	**$50,457**	**$41,380**
Cost of Fuel*	$37,697	$36,174	$36,627	$37,165	$31,622	$26,281

Note: Total may not equal sum of components due to independent rounding.

**Included in "Total Operation & Maintenance Expenses."*

TABLE 73

DETAIL OF TAXES—ELECTRIC DEPARTMENT ONLY INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1984		1983		1982	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 3,857	3.2%	$ 2,845	2.6%	$ 2,853	2.8%
Deferred Taxes on Income*	3,094	2.6	2,546	2.3	1,842	1.8
Other Deferred Income Taxes**	3,417	2.8	3,423	3.2	2,012	2.0
Miscellaneous Taxes	777	0.6	680	0.6	617	0.6
Total Federal Taxes Charged to Income	11,145	9.3	9,495	8.7	7,324	7.2
State and Local Taxes	8,740	7.3	8,028	7.3	7,280	7.2
Total Taxes Charged to Income	**$19,884**	**16.6%**	**$17,523**	**16.0%**	**$14,604**	**14.4%**

	1981		1980		1979	
	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue	Amount	% of Oper. Revenue
Federal Taxes						
Income	$ 1,702	1.8%	$ 1,242	1.5%	$ 660	1.0%
Deferred Taxes on Income*	1,541	1.6	1,347	1.7	1,255	1.8
Other Deferred Income Taxes**	1,871	2.0	1,392	1.7	1,574	2.3
Miscellaneous Taxes	544	0.6	432	0.5	379	0.6
Total Federal Taxes Charged to Income	5,658	6.0	4,413	5.4	3,868	5.7
State and Local Taxes	6,537	6.9	5,855	7.3	5,259	7.7
Total Taxes Charged to Income	**$12,195**	**12.9%**	**$10,268**	**12.7%**	**$ 9,127**	**13.4%**

Note: Total may not equal sum of components due to independent rounding.

**Due to liberalized depreciation and accelerated amortization.*

***Includes investment tax credits reported as charges to income for the current year.*

TABLE 74

CAPITALIZATION AND CAPITALIZATION RATIOS INVESTOR-OWNED ELECTRIC UTILITIES

MILLIONS OF DOLLARS

	1984	1983	1982	1981	1980	1979
CAPITALIZATION OUTSTANDING						
Mortgage Bonds	$108,997	$104,244	$ 98,998	$ 93,783	$ 88,579	$ 82.014
Other Long-Term Debt	32,696	28,034	24,694	20,780	16,978	14,244
Total Long-Term Debt	**141,693**	**132,278**	**123,692**	**114,563**	**105,557**	**96,258**
Preferred Stock	29,882	29,479	28,616	26,817	25,755	23,881
Common Capital Stock	47,842	44,742	40,491	35,406	32,616	29,179
Other Paid-In Capital Excluding Retained Earnings*	33,886	31,580	27,305	23,838	20,509	18,538
Retained Earnings**	40,423	35,369	30,984	27,511	24,865	23,035
Total Capitalization**	**$293,727**	**$273,448**	**$251,088**	**$228,135**	**$209,302**	**$190,891**
CAPITALIZATION RATIOS**						
Mortgage Bonds	37.1%	38.1%	39.5%	41.1%	42.3%	42.9%
Other Long-Term Debt	11.1	10.3	9.8	9.1	8.1	7.5
Total Long-Term Debt	**48.2**	**48.4**	**49.3**	**50.2**	**50.4**	**50.4**
Preferred Stock	10.2	10.8	11.4	11.8	12.3	12.5
Common Capital Stock Equity	41.6	40.8	39.3	38.0	37.3	37.1
Total Capitalization	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**	**100.0%**

Note: Total may not equal sum of components due to independent rounding.

**Includes Premium on Common and Preferred Stock.*

***Figures revised (1979) due to reclassification of Capital Stock Expense. Refer to Table 70 for specific details.*

TABLE 75

PUBLIC UTILITY LONG-TERM FINANCING INVESTOR-OWNED UTILITIES

BY YEAR, TYPE OF ISSUE, PURPOSE AND TYPE OF UTILITY
1979-1984—THOUSANDS OF DOLLARS

	1984	1983	1982	1981	1980	1979
ELECTRIC UTILITIES						
LONG-TERM DEBT						
New Capital	$ 8,403,990	$ 6,831,791	$ 8,438,375	$ 8,576,941	$ 7,847,006	$ 7,223,256
Refunding	717,500	751,064	786,195	351,954	461,294	638,804
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**9,121,490**	**7,582,855**	**9,224,570**	**8,928,895**	**8,308,300**	**7,862,060**
PREFERRED STOCK						
New Capital	888,000	1,902,750	2,096,830	1,173,750	2,003,000	2,288,848
Refunding	—	—	40,000	—	7,500	75,300
Divestment	—	—	—	—	—	—
Total Preferred	**888,000**	**1,902,750**	**2,136,830**	**1,173,750**	**2,010,500**	**2,364,148**
COMMON STOCK						
New Capital	861,633	3,082,855	5,003,687	4,089,481	4,063,303	3,356,088
Refunding	68,500	—	21,103	—	—	—
Divestment	—	—	—	—	—	—
Total Common	**930,133**	**3,082,855**	**5,024,790**	**4,089,481**	**4,063,303**	**3,356,088**
TOTAL CAPITAL						
New Capital	10,153,623	11,817,396	15,538,892	13,840,172	13,913,309	12,868,192
Refunding	786,000	751,064	847,298	351,954	468,794	714,104
Divestment	—	—	—	—	—	—
Total Capital	**$10,939,623**	**$12,568,460**	**$16,386,190**	**$14,192,126**	**$14,382,103**	**$13,582,296**
GAS UTILITIES*						
LONG-TERM DEBT						
New Capital	$ 764,300	$ 1,210,020	$ 1,897,096	$ 1,669,000	$ 924,500	$ 808,211
Refunding	50,000	110,480	17,904	116,000	10,000	203,789
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**814,300**	**1,320,500**	**1,915,000**	**1,785,000**	**934,500**	**1,012,000**
PREFERRED STOCK						
New Capital	100,000	240,000	357,000	130,000	276,000	215,000
Refunding	—	—	—	—	—	—
Divestment	—	—	—	—	—	—
Total Preferred	**100,000**	**240,000**	**357,000**	**130,000**	**276,000**	**215,000**
COMMON STOCK						
New Capital	78,263	364,739	40,025	192,463	351,000	193,505
Refunding	16,591	32,975	—	—	—	—
Divestment	—	—	—	—	—	235,227
Total Common	**94,854**	**397,714**	**40,025**	**192,463**	**351,000**	**428,732**
TOTAL CAPITAL						
New Capital	942,563	1,814,759	2,294,121	1,991,463	1,551,500	1,216,716
Refunding	66,591	143,455	17,904	116,000	10,000	203,789
Divestment	—	—	—	—	—	235,227
Total Capital	**$ 1,009,154**	**$ 1,958,214**	**$ 2,312,025**	**$ 2,107,463**	**$ 1,561,500**	**$ 1,655,732**
ALL OTHER UTILITIES†						
LONG-TERM DEBT						
New Capital	$ 150,000	$ 1,131,055	$ 495,000	$ 3,578,000	$ 5,775,000	$ 3,841,750
Refunding	310,000	383,445	—	168,000	240,000	110,000
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**460,000**	**1,514,500**	**495,000**	**3,746,000**	**6,015,000**	**3,951,750**
PREFERRED STOCK						
New Capital	—	—	40,000	—	83,000	130,000
Refunding	—	—	—	—	—	—
Divestment	—	—	—	—	—	—
Total Preferred	**—**	**—**	**40,000**	**—**	**83,000**	**130,000**
COMMON STOCK						
New Capital	—	1,093,504	1,558,876	984,053	40,916	415,659
Refunding	—	—	—	—	—	76,556
Divestment	204,222	—	—	—	—	—
Total Common	**204,222**	**1,093,504**	**1,558,876**	**984,053**	**40,916**	**492,215**
TOTAL CAPITAL						
New Capital	150,000	2,224,559	2,093,876	4,562,053	5,898,916	4,387,409
Refunding	310,000	383,445	—	168,000	240,000	186,556
Divestment	204,222	—	—	—	—	—
Total Capital	**$ 664,222**	**$ 2,608,004**	**$ 2,093,876**	**$ 4,730,053**	**$ 6,138,916**	**$ 4,573,965**
TOTAL UTILITY FINANCING						
LONG-TERM DEBT						
New Capital	$ 9,318,290	$ 9,172,866	$10,830,471	$13,823,941	$14,546,506	$11,873,217
Refunding	1,077,500	1,244,989	804,099	635,954	711,294	952,593
Divestment	—	—	—	—	—	—
Total Long-Term Debt	**10,395,790**	**10,417,855**	**11,634,570**	**14,459,895**	**15,257,800**	**12,825,810**
PREFERRED STOCK						
New Capital	988,000	2,142,750	2,493,830	1,303,750	2,362,000	2,633,848
Refunding	—	—	40,000	—	7,500	75,300
Divestment	—	—	—	—	—	—
Total Preferred	**988,000**	**2,142,750**	**2,533,830**	**1,303,750**	**2,369,500**	**2,709,148**
COMMON STOCK						
New Capital	939,896	4,541,098	6,602,588	5,265,997	4,455,219	3,965,252
Refunding	85,091	32,975	21,103	—	—	76,556
Divestment	204,222	—	—	—	—	235,227
Total Common	**1,229,209**	**4,574,073**	**6,623,691**	**5,265,997**	**4,455,219**	**4,277,035**
TOTAL CAPITAL						
New Capital	11,246,186	15,856,714	19,926,889	20,393,688	21,363,725	18,472,317
Refunding	1,162,591	1,277,964	865,202	635,954	718,794	1,104,449
Divestment	204,222	—	—	—	—	235,227
Total Capital	**$12,612,999**	**$17,134,678**	**$20,792,091**	**$21,029,642**	**$22,082,519**	**$19,811,993**

Classification as to type of utility is based upon predominant source of revenue **Includes gas pipe line companies*

† "Other Utilities" are water, transit, telephone and telegraph. Does not include railroads.

Note: Includes negotiated sales of pollution control bonds: 1984, $3,346 million; 1983, $1,652 million; 1982, $1,727 million; 1981, $1,767 million; 1980, $982.4 million; and 1979, $1,297.8 million.

Source: Ebasco Business Consulting Co.

TABLE 76

WEIGHTED AVERAGE OF YIELDS ON NEWLY ISSUED DOMESTIC BONDS AND PREFERRED STOCKS

1964-1984

	Utility Bonds					Preferred Stocks
Year	Electric and Gas	Telephone	Water Works	All Utilities	Industrial Bonds	All Utilities
1984	**14.25%**	**12.73%**	....	**13.33%**	**12.58%**	**13.16%**
1983	12.70	11.72	....	12.53	11.50	12.06
1982	14.93	14.23	....	14.56	13.65	14.42
1981	16.31	15.45	....	16.30	15.16	15.11
1980	13.46	12.59	....	13.09	11.66	12.28
1979	10.85	10.29	....	10.64	9.49	9.76
1978	9.30	9.07	....	9.22	8.98	9.03
1977	8.43	8.21	....	8.38	8.15	8.43
1976	8.92	8.41	....	8.80	8.61	9.12
1975	9.97	9.27	....	9.76	9.12	10.63
1974	9.59	9.22	....	9.21	8.87	9.95
1973	7.91	7.87	....	7.88	7.86	7.50
1972	7.50	7.36	....	7.46	7.51	7.53
1971	7.72	7.58	....	7.71	7.80	7.74
1970	8.79	8.75	....	8.85	8.86	9.01
1969	7.98	8.00	....	7.99	7.84	7.75
1968	6.80	6.55	7.17%	6.72	6.64	6.44
1967	6.07	5.77	6.01	6.01	5.79	6.03
1966	5.53	5.51	5.02	5.61	5.52	5.37
1965	4.61	4.61	4.79	4.68	4.80	....
1964	4.55	4.55	4.61	4.56	4.51	4.74

Source: Moody's Investors Service

TABLE 77

MOODY'S AVERAGE YIELDS ON UTILITY BONDS AND STOCKS

BY MOODY'S BOND RATINGS AND STOCK QUALITY GROUPS

1974-1984

	BONDS					PREFERRED STOCKS			COMMON STOCKS					
		Rating							High Quality		Good Quality		Medium Quality	
End of Month	Over-all* Average	Aaa**	Aa	A	Baa	aa High Quality	a Good Quality	baa Medium Quality	Yield	E/P Ratio†	Yield	E/P Ratio†	Yield	E/P Ratio†
1984														
December	12.96%	12.54%	12.79%	13.02%	13.49%	12.25%	12.97%	13.71%	8.26%	14.10%	9.65%	13.73%	10.96%	15.60%
September	13.95	...	13.38	14.13	14.35	12.31	13.31	14.28	8.64	14.86	10.43	14.48	11.90	16.97
June	15.32	...	14.96	15.25	15.76	13.28	14.22	14.85	9.85	17.01	11.51	15.88	13.34	18.84
March	14.16	...	13.78	14.04	14.66	12.40	13.12	13.55	9.65	16.89	11.37	15.64	12.81	18.77
1983														
December	13.46	12.96	13.15	13.50	14.22	12.18	12.61	13.34	8.83	15.32	10.43	13.95	11.97	17.04
September	13.20	12.66	12.87	13.27	13.98	11.70	12.15	12.72	9.03	15.26	10.17	14.00	10.86	14.94
June	13.13	12.32	12.63	13.54	14.04	11.34	12.05	12.47	9.37	15.11	10.75	14.29	10.84	14.29
March	13.26	12.23	12.66	13.82	14.34	11.17	11.79	12.51	9.35	14.77	10.19	14.14	11.13	14.41
1982														
December	13.50	12.30	12.68	14.37	14.65	11.63	12.20	13.26	9.22	15.20	10.56	14.77	11.43	14.79
September	14.39	12.97	13.76	15.31	15.52	12.84	13.49	14.11	9.64	15.91	11.30	15.78	12.15	16.17
June	16.37	15.55	16.04	16.56	17.32	14.30	14.69	15.67	10.08	14.13	11.96	15.95	13.03	17.33
March	16.19	15.15	15.62	16.64	17.35	14.44	14.81	15.48	10.09	16.74	11.53	15.96	12.74	16.72
1981														
December	16.23	14.88	15.90	16.68	17.45	14.97	15.47	15.83	11.01	16.19	11.72	14.43	13.53	17.58
September	17.56	16.74	17.43	17.84	18.21	14.68	15.28	16.01	11.52	16.74	12.01	14.73	13.96	18.07
June	15.49	14.47	15.06	15.84	16.60	13.75	14.15	15.02	10.94	15.78	11.70	14.05	12.88	16.95
March	14.86	13.96	14.61	15.17	15.69	13.35	13.72	14.57	11.71	16.51	12.20	15.21	13.30	17.63
1980														
December	14.11	13.18	13.91	14.14	15.20	13.15	14.01	14.56	11.49	15.65	12.36	16.86	13.27	17.01
September	13.68	12.91	13.49	13.74	14.58	12.02	12.92	13.76	11.37	15.46	11.83	16.01	12.77	15.71
June	12.04	11.30	11.84	12.22	12.81	10.59	10.97	12.05	10.24	13.41	10.65	14.36	11.52	13.22
March	14.57	13.35	14.57	14.96	15.41	13.09	14.74	15.22	12.15	15.50	12.52	18.27	13.93	19.11
1979														
December	11.85	11.09	11.62	11.97	12.71	10.86	11.49	12.75	10.57	15.89	11.00	15.61	12.23	14.86
September	10.39	9.75	10.10	10.62	11.08	9.60	10.34	10.97	9.81	14.82	10.37	15.29	10.92	13.71
June	9.90	9.39	9.73	10.04	10.45	9.03	9.55	10.49	9.18	13.87	9.83	14.24	10.31	12.93
March	10.02	9.60	9.90	10.06	10.51	9.10	9.63	10.33	9.13	13.73	9.66	14.16	10.04	13.04
1978														
December	9.82	9.47	9.65	9.84	10.31	8.94	9.65	10.48	9.38	13.19	9.89	13.89	10.01	12.77
September	9.23	8.91	9.15	9.29	9.57	8.43	8.82	9.62	8.37	11.80	8.88	12.82	9.15	11.99
June	9.36	8.99	9.24	9.46	9.73	8.84	9.39	9.81	8.35	11.87	8.95	12.74	9.20	12.41
March	8.97	8.61	8.80	8.99	9.47	8.35	8.79	9.24	8.35	12.46	8.82	12.66	8.86	11.39
1977														
December	8.75	8.39	8.63	8.77	9.21	8.14	8.59	9.03	7.55	12.32	8.04	12.30	8.43	11.27
September	8.47	8.12	8.37	8.48	8.89	7.95	8.32	8.87	7.29	12.49	7.83	11.96	8.25	11.84
June	8.46	8.07	8.29	8.52	8.97	8.03	8.47	8.92	7.23	12.34	7.57	11.45	8.23	11.86
March	8.70	8.26	8.55	8.77	9.22	8.21	8.75	9.01	7.32	13.01	7.74	12.04	8.68	12.77
1976														
December	8.54	8.05	8.37	8.59	9.16	8.28	8.80	9.15	7.18	11.36	7.79	11.73	8.23	11.17
September	8.87	8.57	8.65	8.81	9.45	8.58	9.04	9.45	7.39	11.31	7.82	11.44	8.60	11.26
June	9.36	8.87	9.08	9.43	10.06	8.92	9.46	9.79	8.40	12.72	8.84	12.99	9.28	12.15
March	9.34	8.67	9.07	9.58	10.04	8.92	9.52	9.73	8.13	11.99	8.51	13.08	9.11	12.15
1975														
December	9.79	8.94	9.44	10.03	10.75	9.41	10.39	10.67	7.47	10.75	7.85	11.04	9.61	14.18
September	10.01	9.25	9.66	10.24	10.90	9.78	10.71	11.11	8.34	12.05	8.78	12.30	11.01	15.64
June	9.79	8.99	9.37	9.97	10.84	9.34	10.88	11.12	7.22	10.54	8.07	11.03	10.18	13.25
March	9.72	8.99	9.29	9.83	10.75	9.31	10.48	11.00	8.23	12.19	9.31	12.96	12.46	14.89
1974														
December	10.13	9.08	9.47	10.44	11.52	10.17	11.20	11.72	8.88	13.61	10.81	17.95	15.51	18.49
September	10.28	9.54	10.12	10.64	10.80	10.41	10.94	11.70	9.05	14.22	10.62	17.60	14.00	16.91
June	9.22	8.71	9.06	9.50	9.60	9.32	9.64	10.00	8.79	13.47	10.16	15.86	12.16	15.48
March	8.56	8.25	8.48	8.60	8.92	8.06	8.61	8.74	7.51	11.51	7.99	11.70	8.66	11.19

Note: Yields shown under preferred stocks and common stocks represent averages of ten companies in each quality group.

**Average yield for 40 utility bonds, ten in each of the four top quality ratings shown.*

***The Aaa public utility average was suspended January 17, 1984, because of a lack of appropriate issues and reinstated on October 12. The 1984 high and low for the Average Utility and the Aaa Utility, were determined when a Aaa Utility was available.*

† Ratio in percent is obtained by dividing earnings per share by market price per share.

Source: Moody's Investors Service.

TABLE 78

MOODY'S 24 UTILITY COMMON STOCKS END-OF-MONTH AVERAGES

Year	Average	January	February	March	April	May	June	July	August	September	October	November	December
						MARKET PRICE—WEIGHTED AVERAGE—$ PER SHARE							
1985	...	**80.47**	**81.05**	**83.66**	**85.91**	**89.32**	**92.81**	**87.22**	...	...	...	...	...
1984	71.16	71.08	68.08	66.74	65.95	66.09	66.49	68.12	70.45	74.77	77.05	78.99	80.16
1983	74.04	72.53	73.59	73.79	75.39	75.35	71.73	72.19	72.50	74.88	78.16	76.37	72.03
1982	63.56	57.95	60.16	60.77	63.15	63.23	61.15	59.16	66.63	66.10	66.83	67.34	70.26
1981	55.41	53.19	52.61	54.43	53.43	54.00	56.04	56.33	56.82	54.99	56.01	59.83	57.20
1980	54.80	54.57	49.93	50.16	57.14	58.51	60.08	57.83	56.40	54.51	52.63	51.44	54.42
						DIVIDEND RATE—WEIGHTED AVERAGE—$ PER SHARE							
1985	...	**8.44**	**8.46**	**8.48**	**8.52**	**8.61**	**8.66**	**8.66**	...	...	...	...	...
1984	8.26	8.11	8.12	8.14	8.17	8.25	8.30	8.31	8.34	8.34	8.34	8.35	8.37
1983	7.87	7.73	7.75	7.76	7.80	7.86	7.86	7.87	7.87	7.97	7.97	7.98	8.00
1982	7.43	7.20	7.22	7.31	7.32	7.42	7.44	7.48	7.48	7.55	7.56	7.57	7.64
1981	6.99	6.83	6.85	6.85	6.87	6.91	6.96	6.99	6.99	7.13	7.13	7.15	7.16
1980	6.58	6.45	6.52	6.52	6.53	6.56	6.58	6.59	6.60	6.65	6.65	6.67	6.67
						YIELD—%							
1985	...	**10.49**	**10.44**	**10.14**	**9.92**	**9.64**	**9.33**	**9.93**	...	...	...	...	...
1984	11.61	11.41	11.93	12.20	12.39	12.48	12.48	12.20	11.84	11.15	10.82	10.57	10.44
1983	10.63	10.66	10.53	10.52	10.35	10.43	10.96	10.90	10.86	10.64	10.19	10.45	11.11
1982	11.69	12.42	12.00	12.03	11.59	11.73	12.17	12.64	11.23	11.42	11.31	11.24	10.37
1981	12.62	12.84	13.02	12.59	12.86	12.80	12.42	12.41	12.30	12.97	12.73	11.95	12.52
1980	12.01	11.82	13.06	13.00	11.43	11.21	10.95	11.40	11.70	12.20	12.64	12.97	12.26

EARNINGS—WEIGHTED AVERAGE—$ PER SHARE

	First Quarter	Second Quarter	Third Quarter	Fourth Quarter
1985	**12.66**	...	...	...
1984	12.35	12.56	12.48	12.67
1983	10.87	10.87	11.49	11.88
1982	10.52	10.80	11.06	10.90
1981	9.35	9.59	10.11	10.16
1980	8.69	8.58	8.75	8.98

Note: Quarterly earnings are for the 12 months ended March 31, June 30, September 30 and December 31.
Source: Moody's Investors Service.

ECONOMICS AND OTHER

SECTION X

TABLE 82

CONSUMER PRICE INDEX, 1961-1984

1967 EQUALS 100

	All Items		Food and Beverages		Housing	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1984*	**311.1**	**4.3**	**295.1**	**3.8**	**336.5**	**4.1**
1983*	298.4	3.2	284.4	2.2	323.1	2.7
1982*	289.1	6.1	278.2	4.1	314.7	7.2
1981*	272.4	10.4	267.3	7.8	293.5	11.5
1980*	246.8	13.5	248.0	8.5	263.3	15.8
1979*	217.4	11.3	228.5	10.8	227.6	12.2
1978*	195.4	7.7	206.3	9.7	202.8	8.7
1977	181.5	6.5	188.0	6.0	186.5	6.8
1976	170.5	5.8	177.4	3.1	174.6	6.1
1975	161.2	9.1	172.1	8.4	164.5	10.6
1974	147.7	11.0	158.7	13.8	148.8	11.3
1973	133.1	6.2	139.5	13.2	133.7	4.4
1972	125.3	3.3	123.2	4.1	128.1	3.8
1971	121.3	4.3	118.3	3.1	123.4	4.4
1970	116.3	5.9	114.7	5.4	118.2	7.1
1969	109.8	5.4	108.8	5.0	110.4	6.2
1968	104.2	4.2	103.6	3.6	104.0	4.0
1967	100.0	2.9	100.0		100.0	2.9
1966	97.2	2.9			97.2	2.4
1965	94.5	1.7			94.9	1.2
1964	92.9	1.3			93.8	1.2
1963	91.7	1.2			92.7	1.1
1962	90.6	1.1			91.7	0.9
1961	89.6	1.0			90.9	0.8

	Transportation		Gas and Electricity		Electricity	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1984*	**311.7**	**4.5**	**445.2**	**3.8**	**351.8**	**6.4**
1983*	298.4	2.4	428.7	8.9	330.6	3.2
1982*	291.5	4.1	393.8	13.8	320.3	9.9
1981*	280.0	12.1	345.9	14.6	291.5	15.0
1980*	249.7	17.8	301.8	17.1	253.4	15.7
1979*	212.0	14.3	257.8	10.8	219.1	7.7
1978*	185.5	4.7	232.6	9.0	203.4	7.4
1977	177.2	7.1	213.4	12.9	189.3	6.6
1976	165.5	9.9	189.0	11.4	177.6	6.3
1975	150.6	9.4	169.6	16.3	167.0	13.2
1974	137.7	11.2	145.8	15.3	147.5	18.1
1973	123.8	3.3	126.4	4.9	124.9	5.0
1972	119.9	1.1	120.5	5.1	118.9	5.0
1971	118.6	5.2	114.7	6.9	113.2	5.6
1970	112.7	5.1	107.3	4.4	106.2	3.3
1969	107.2	3.9	102.8	1.9	102.8	1.9
1968	103.2	3.2	100.9	0.9	100.9	0.9
1967	100.0	2.9	100.0	0.4	100.0	0.9
1966	97.2	1.4	99.6	0.2	99.1	0.0
1965	95.9	1.7	99.4	0.0	99.1	(0.5)
1964	94.3	1.4	99.4	0.0	99.6	(0.5)
1963	93.0	0.5	99.4	0.0	100.1	0.0
1962	92.5	2.1	99.4	0.0	100.1	0.0
1961	90.6	1.1	99.4	0.3	100.1	0.3

Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Monthly Labor Report.

TABLE 83

RESIDENTIAL ELECTRICITY AND CONSUMER PRICE INDEX TOTAL ELECTRIC UTILITY INDUSTRY

Year	Average Revenue per Residential kWh Used		Average Rate per kWh Based on Average of Typical Bills in Cities* Price per kWh for Monthly Use of				U.S. Bureau of Labor Statistics Index Numbers Based on 1967 = 100†	
		100 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	Electricity	Consumer Price Index
		(Energy Information Administration)						
1984	**7.14¢p**	....	....	....	....	....	**351.8**	**311.1**
1983	6.83	....	8.63¢	8.04¢	7.30¢	7.28¢	330.6	298.4
1982	6.44	....	8.29	7.67	7.03	7.00	320.3	289.1
1981	5.86r	....	7.93	7.39	6.68	6.64	291.5	272.4
1980	5.12	....	7.10	6.52	5.87	5.82	253.4	246.8
1979	4.43	....	6.11	5.56	4.92	4.87	219.1	217.4
1978	4.03	7.10¢	5.54	4.61	4.36	4.31	203.4	195.4
1977	3.78	6.87	5.39	4.44	4.16	4.10	189.3	181.5
1976	3.45	6.54	5.14	4.17	3.90	3.82	177.6	170.5
1975	3.21	6.15	4.82	3.85	3.57	3.49	167.0	161.2
1974	2.83	5.89	4.60	3.59	3.30	3.23	147.5	147.7
1973	2.38	4.99	3.79	2.82	2.55	2.49	124.9	133.1
1972	2.29	4.65	3.47	2.51	2.26	2.19	118.9	125.3
1971	2.19	4.51	3.34	2.40	2.15	2.07	113.2	121.3
1970	2.10	4.25	3.14	2.23	2.00	1.92	106.2	116.3
1969	2.09	4.09	3.00	2.10	1.90	1.83	102.8	109.8
1968	2.12	4.05	2.96	2.06	1.86	1.80	100.9	104.2
1967	2.17	4.03	2.95	2.07	1.89	1.83	100.0	100.0
1966	2.20	4.03	2.95	2.07	1.89	1.83	99.1	97.2
1965	2.25	4.00	2.94	2.07	1.89	1.83	99.1	94.5
1964	2.31	4.02	2.95	2.08	1.91	1.86	99.6	92.9

*As determined by the Energy Information Administration in its "Typical Electric Bills." The figures cover rate schedules as of December 31 in all cities with populations of 2,500 or more.

† "Index numbers" are percentages of the base year 1967. For a description of the components and characteristics of this Index, see BLS Handbook of Methods, Bulletin #1711 for 1971. Data beginning 1978 are for All Urban Consumers; earlier data are for Urban Wage Earners and Clerical Workers.

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TABLE 84

PRODUCER PRICE INDEX — ALL ITEMS AND SELECTED INDUSTRIAL COMMODITIES

1967 EQUALS 100

	All Items		Metals and Metal Products		Machinery and Equipment		Furniture and Household Durables		Fuels and Related Products and Power	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1984	**310.3**	**2.4**	**316.0**	**2.9**	**293.1**	**2.3**	**218.6**	**2.2**	**657.0**	**(1.3)**
1983	303.1	1.3	307.1	1.8	286.4	2.8	213.9	3.4	665.9	(4.0)
1982	299.3	2.0	301.8	0.5	278.7	5.9	206.8	4.2	693.4	(0.1)
1981	293.4	9.2	300.4	4.9	263.1	9.7	198.4	5.7	694.4	21.0
1980	268.8	14.1	286.4	10.5	239.8	12.1	187.7	9.6	574.0	40.7
1979	235.6	12.6	259.3	14.2	213.9	9.1	171.3	6.8	408.1	26.5
1978	209.3	7.8	227.1	8.7	196.1	7.9	160.4	5.9	322.5	6.7
1977	194.2	6.1	209.0	6.7	181.7	6.3	151.5	4.1	302.2	13.6
1976	183.0	4.6	195.9	5.5	171.0	5.9	145.6	4.2	265.6	8.4
1975	174.9	9.2	185.6	8.0	161.4	15.8	139.7	9.2	245.1	17.7
1974	160.1	18.9	171.9	29.4	139.4	14.5	127.9	11.0	208.3	55.1
1973	134.7	13.1	132.8	7.5	121.7	3.2	115.2	3.4	134.3	13.8
1972	119.1	4.5	123.5	4.0	117.9	2.1	111.4	1.3	118.6	3.0
1971	114.0	3.3	118.7	1.8	115.5	3.7	110.0	2.3	115.2	8.5
1970	110.4	3.7	116.6	7.5	111.4	4.6	107.5	2.5	106.2	5.3
1969	106.5	3.9	108.5	5.8	106.5	3.2	104.9	2.0	100.9	2.0
1968	102.5	2.5	102.6	2.6	103.2	3.2	102.8	2.8	98.9	(1.1)
1967	100.0	0.1	100.0	1.2	100.0	3.3	100.0	2.0	100.0	2.2
1966	99.8	3.3	98.8	2.5	96.8	3.1	98.0	1.1	97.8	2.4
1965	96.6	2.0	96.4	2.8	93.9	1.1	96.9	(0.5)	95.5	1.9
1964	94.7	0.2	93.8	2.7	92.8	0.7	97.4	0.4	93.7	(2.7)

	Coal		Gas Fuels		Electric Power		Crude Petroleum		Petroleum Products, Refined	
Year	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase	Index	Percent Increase
1984	**546.0**	**1.7**	**1,109.9**	**(3.3)**	**440.0**	**5.3**	**670.5**	**(1.6)**	**665.3**	**(3.1)**
1983	536.8	0.3	1,147.9	8.2	418.0	2.8	681.5	(7.1)	686.4	(9.9)
1982	535.3	7.6	1,061.2	12.9	406.6	10.9	733.5	(8.7)	761.5	(5.5)
1981	497.3	6.4	939.8	23.5	366.8	14.1	803.6	44.4	805.8	19.4
1980	467.3	3.6	760.7	39.8	321.6	18.7	556.4	47.8	674.7	51.7
1979	450.9	4.9	544.1	26.9	270.9	8.1	376.5	25.4	444.8	38.6
1978	430.0	10.4	428.7	10.5	250.6	7.6	300.1	9.4	321.0	4.2
1977	389.4	5.6	387.8	35.2	232.9	12.1	274.2	8.1	308.2	11.4
1976	368.7	(4.4)	286.8	32.3	207.6	7.4	253.6	3.2	276.6	7.4
1975	385.8	16.1	216.7	33.6	193.4	18.6	245.7	16.0	257.5	15.3
1974	332.4	52.4	162.2	28.0	163.1	26.1	211.8	68.1	223.4	73.5
1973	218.1	12.5	126.7	11.0	129.3	6.4	126.0	10.7	128.7	18.2
1972	193.8	6.5	114.1	5.2	121.5	4.6	113.8	(0.7)	108.9	1.6
1971	182.0	21.1	108.5	4.7	116.2	9.7	114.6	8.0	107.2	6.1
1970	150.3	33.5	103.6	11.0	105.9	4.0	106.1	0.9	101.0	1.4
1969	112.6	8.6	93.3	0.5	101.8	0.9	105.2	4.4	99.6	1.5
1968	103.7	3.7	92.7	(7.3)	100.9	0.9	100.8	0.8	98.1	(1.9)
1967	100.0	4.7	100.0	3.5	100.0	0.4	100.0	1.1	100.0	2.7
1966	95.5	2.2	96.7	4.2	99.6	(0.5)	98.9	0.7	97.4	3.8
1965	93.4	(0.4)	92.8	2.3	100.1	(0.3)	98.2	(0.1)	93.8	3.4
1964	93.8	0.0	90.7	(1.2)	100.4	(0.9)	98.3	(0.4)	90.7	(4.6)

Source: U.S. Department of Labor, Bureau of Statistics, Monthly Labor Report

TABLE 85

COST TRENDS OF ELECTRIC LIGHT AND POWER CONSTRUCTION*

BY GEOGRAPHIC DIVISIONS—1964-1985
1973 EQUALS 100

Date	North Atlantic	South Atlantic	North Central	South Central	Plateau	Pacific
Jan. 1, 1985	243	241	245	249	248	258
July 1, 1984	239	237	241	246	248	259
Jan. 1, 1984	233	233	236	243	244	255
July 1, 1983	231	233	236	242	245	254
Jan. 1, 1983	226	230	231	239	240	250
July 1, 1982	222	227	229	234	236	247
Jan. 1, 1982	218	222	226	231	232	240
July 1, 1981	209	218	215	222	222	230
Jan. 1, 1981	203	210	208	214	216	225
July 1, 1980	193	197	196	203	202	209
Jan. 1, 1980	186	191	190	195	197	200
July 1, 1979	178	182	181	187	188	192
Jan. 1, 1979	168	174	173	178	179	181
July 1, 1978	161	165	165	169	170	173
Jan. 1, 1978	156	161	159	164	166	168
July 1, 1977	154	158	157	162	163	165
Jan. 1, 1977	147	152	149	155	155	157
July 1, 1976	145	148	146	151	152	151
Jan. 1, 1976	140	144	141	146	145	146
July 1, 1975	138	140	140	142	143	141
Jan. 1, 1975	130	133	132	134	133	132
July 1, 1974	119	120	120	122	120	120
Jan. 1, 1974	105	105	104	105	105	105
July 1, 1973	100	100r	100	100	100	100
Jan. 1, 1973	95	96	96	95	96	96
July 1, 1972	93	94	94	93	94	94
Jan. 1, 1972	92	91	94	91	92	93
July 1, 1971	87	88	90	88r	89r	89r
Jan. 1, 1971	83	84	86	85	85	85
July 1, 1970	80r	81	83r	83	82	82r
Jan. 1, 1970	77	79	80	80	80	80
July 1, 1969	74	76	77	77	77r	77
Jan. 1, 1969	72	73	74	74	74	74
July 1, 1968	71r	71r	72r	73r	73r	73
Jan. 1, 1968	69	70	71	72	72	72
July 1, 1967	68	68	69	70	70r	71
Jan. 1, 1967	67	67	67	68	68	69
July 1, 1966	66	66	66	67	67	68
Jan. 1, 1966	64	65	65	66	66	67
July 1, 1965	64	64	65	65	66	66
Jan. 1, 1965	63	63	63	64	65	65
July 1, 1964	62	62	63	63	64	64
Jan. 1, 1964	61	62	62	62	63	63

r Revised.

* *Index numbers shown are a composite of over 50 material and labor items included in the Handy-Whitman Index service of cost indexes of construction and equipment, all steam.*

Source: Handy-Whitman Index of Public Utility Construction Costs. Published by courtesy of Whitman, Requardt and Associates, Baltimore, Maryland.

TABLE 86

COST OF INDUSTRIAL PURCHASED ELECTRIC POWER AS A PERCENT OF VALUE OF PRODUCT SHIPMENT

U.S. AVERAGE 1976—1981

Standard Industrial Classification	Industry	1981	1980	1979	1978	1977	1976
20	Food and Kindred Products	0.8	0.7	0.6	0.7	0.6	0.6
21	Tobacco Manufacturers	0.4	0.5	0.4	0.4	0.4	0.3
22	Textile Mill Products	1.9	1.8	1.8	1.8	1.7	1.7
23	Apparel and Other Textile Products	0.7	0.7	0.6	0.7	0.5	0.5
24	Lumber and Wood Products	1.3	1.1	1.0	1.0	1.0	1.0
25	Furniture and Fixtures	0.9	0.8	0.8	0.8	0.8	0.8
26	Paper and Allied Products	3.6	3.3	3.1	3.1	3.0	2.7
27	Printing and Publishing	0.7	0.7	0.6	0.7	0.6	0.6
28	Chemicals and Allied Products	3.0	2.8	2.8	2.8	2.7	2.6
29	Petroleum and Coal Products	0.7	0.7	0.7	0.8	0.8	0.7
30	Rubber and Miscellaneous Plastics Products	2.0	1.9	1.7	1.7	1.6	1.5
31	Leather and Leather Products	0.7	0.7	0.6	0.6	0.7	0.6
32	Stone, Clay and Glass Products	2.7	2.5	2.3	2.3	2.3	2.2
33	Primary Metal Industries	3.8	3.5	3.2	3.2	3.0	2.7
34	Fabricated Metal Products	1.1	1.0	0.9	0.9	0.9	0.9
35	Machinery, Except Electrical	0.8	0.7	0.7	0.7	0.7	0.7
36	Electric and Electronic Equipment	1.0	0.9	0.8	0.8	0.8	0.8
37	Transportation Equipment	0.7	0.7	0.5	0.5	0.5	0.5
38	Instruments and Related Products	0.7	0.6	0.6	0.6	0.6	0.6
39	Miscellaneous Manufacturing Industries	0.8	0.7	0.7	0.7	0.7	0.7
	Total Manufacturing	1.4	1.4	1.3	1.2	1.2	1.2

Note: 1982 data not available at time of printing.

Source: U.S. Department of Commerce, Annual Survey of Manufactures. Fuels and Electric Energy Consumed, and Value of Product Shipments.

TABLE 87

WEIGHTED AVERAGE ELECTRIC BILLS (DOLLARS)

BY CENSUS DIVISION AND CERTAIN CLASS OF SERVICE
1983 – 1984

Residential Service

	January 1, 1984					January 1, 1983				
Division	250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh	250 kWh	500 kWh	750 kWh	1,000 kWh	2,500 kWh
New England	$26.43	$49.50	$67.01	$ 89.63	$212.11	$24.48	$44.64	$61.47	$81.56	$191.17
Middle Atlantic	30.28	54.74	71.52	95.20	224.83	29.18	52.11	70.58	94.03	224.79
East North Central	20.67	38.85	51.78	68.83	141.31	19.92	37.47	49.80	66.22	136.98
West North Central	18.47	34.15	46.99	60.96	125.69	17.46	32.37	44.44	57.68	118.71
South Atlantic	20.62	36.66	51.49	66.65	154.28	19.75	34.92	48.83	63.41	146.72
East South Central	17.31	30.47	42.29	54.01	122.74	16.36	28.93	40.98	52.77	120.45
West South Central	20.90	36.38	49.99	64.80	139.42	19.76	34.31	47.12	61.11	131.46
Mountain	19.24	34.39	48.37	62.26	141.55	18.92	33.82	47.18	61.16	138.61
Pacific	15.24	34.08	48.85	69.01	174.02	15.25	33.67	48.26	66.92	169.20
Alaska & Hawaii	29.34	52.95	76.62	100.15	241.32	26.41	47.71	69.00	90.09	216.94
U.S. Average	$21.57	$40.18	$54.76	$ 72.77	$166.00	$20.72	$38.35	$52.74	$69.96	$160.22

Commercial Service

	January 1, 1984					January 1, 1983				
	12 kW	30 kW	40 kW	50 kW	100 kW	12 kW	30 kW	40 kW	50 kW	100 kW
	1,500 kWh	6,000 kWh	10,000 kWh	12,500 kWh	30,000 kWh	1,500 kWh	6,000 kWh	10,000 kWh	12,500 kWh	30,000 kWh
New England	$187.78	$644.07	$ 984.69	$1,217.13	$2,695.93	$178.58	$594.96	$ 907.14	$1,118.18	$2,461.05
Middle Atlantic	257.03	799.54	1,203.31	1,502.93	3,298.05	248.84	787.28	1,197.97	1,495.05	3,341.70
East North Central	149.17	520.30	806.76	1,001.31	2,254.10	145.27	504.18	781.26	969.82	2,169.41
West North Central	119.48	427.82	659.26	815.15	1,795.03	112.76	400.48	618.59	764.43	1,684.14
South Atlantic	123.98	452.64	708.51	878.22	1,961.05	120.41	435.81	683.08	846.86	1,890.01
East South Central	104.88	376.27	601.76	749.63	1,733.70	104.03	377.04	601.35	748.53	1,699.69
West South Central	128.36	450.15	697.00	863.46	1,919.52	122.57	427.57	661.23	817.35	1,812.26
Mountain	111.46	441.34	667.82	823.56	1,795.26	112.53	448.03	681.44	836.71	1,817.67
Pacific	118.45	459.19	736.82	918.46	2,149.93	117.11	454.04	727.96	906.63	2,116.97
Alaska & Hawaii	163.05	611.37	987.75	1,231.27	2,891.78	147.32	556.51	920.24	1,147.57	2,738.88
U.S. Average	$153.68	$533.76	$ 825.36	$1,025.83	$2,298.85	$149.22	$518.86	$ 804.73	$ 999.28	$2,244.00

Industrial Service

	January 1, 1984				January 1, 1983			
	150 kW	300 kW	1,000 kW	5,000 kW	150 kW	300 kW	1,000 kW	5,000 kW
	30,000 kWh	60,000 kWh	200,000 kWh	1,500,000 kWh	30,000 kWh	60,000 kWh	200,000 kWh	1,500,000 kWh
New England	$2,785	$5,384	$17,107	$116,955	$2,548	$4,912	$15,662	$106,173
Middle Atlantic	3,536	6,894	22,071	134,615	3,628	7,094	22,914	145,966
East North Central	2,492	4,820	15,666	96,642	2,406	4,661	15,158	92,394
West North Central	1,962	3,826	12,144	75,787	1,834	3,575	11,321	70,976
South Atlantic	2,196	4,356	14,267	85,330	2,112	4,186	13,672	81,347
East South Central	1,990	3,985	12,266	76,061	2,001	3,960	12,296	75,661
West South Central	2,138	4,222	13,370	85,592	2,012	3,923	12,181	78,479
Mountain	2,037	3,932	12,523	78,083	2,062	4,010	12,453	78,241
Pacific	2,262	4,464	14,780	102,393	2,231	4,412	14,677	101,739
Alaska & Hawaii	3,183	6,079	19,410	128,734	2,739	5,290	17,067	113,827
U.S. Average	$2,500	$4,891	$15,769	$ 99,975	$2,449	$4,789	$15,445	$ 98,783

Source: U.S. Department of Energy. Energy Information Administration. Typical Electric Bills.

TABLE 88

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—TOTAL ELECTRIC UTILITY INDUSTRY

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1984	Circuit Miles 1983r	Circuit Miles 1982r
Total United States*	**599,773**	**590,655**	**580,485**
Maine	3,740	3,736	3,662
New Hampshire	2,275	2,267	2,214
Vermont	2,037	2,025	1,979
Massachusetts	5,272	5,258	5,254
Rhode Island	707	703	700
Connecticut	1,740	1,736	1,718
New England	**15,771**	**15,725**	**15,527**
New York	20,050	20,303	20,092
New Jersey	6,262	6,269	6,244
Pennsylvania	19,328	19,484	19,294
Middle Atlantic	**45,640**	**46,056**	**45,630**
Ohio	21,332	21,385	21,340
Indiana	14,881	14,776	14,610
Illinois	16,962	16,369	16,404
Michigan	17,970	17,981	17,886
Wisconsin	9,641	9,598	9,578
East North Central	**80,786**	**80,109**	**79,818**
Minnesota	10,358	10,355	10,371
Iowa	10,934	11,203	11,177
Missouri	11,915	11,208	11,624
North Dakota	7,031	6,963	6,903
South Dakota	6,720	6,826	6,811
Nebraska	13,143	12,312	12,148
Kansas	10,782	10,040	9,902
West North Central	**70,883**	**68,907**	**68,936**
Delaware	1,069	2,210	2,220
Maryland	8,676	8,649	8,599
District of Columbia	12	12	12
Virginia	11,843	11,536	11,448
West Virginia	7,396	7,449	7,203
North Carolina	23,053	22,610	22,291
South Carolina	19,165	19,011	18,835
Georgia	21,353	20,774	20,492
Florida	15,565	14,844	14,817
South Atlantic	**108,132**	**107,095**	**105,917**
Kentucky	12,721	12,410	12,293
Tennessee	29,533	28,487	25,364
Alabama	13,821	13,672	13,527
Mississippi	12,830	12,565	12,309
East South Central	**68,905**	**67,134**	**63,493**
Arkansas	6,546	6,269	6,209
Louisiana	11,415	11,127	10,883
Oklahoma	11,085	11,233	11,205
Texas	44,854	43,702	43,412
West South Central	**73,900**	**72,331**	**71,709**
Montana	10,413	10,285	9,900
Idaho	11,526	11,455	11,289
Wyoming	4,980	4,942	4,978
Colorado	6,907	6,947	6,887
New Mexico	6,955	6,454	6,072
Arizona	11,223	11,072	11,250
Utah	5,792	5,784	5,769
Nevada	6,385	6,368	6,373
Mountain	**64,181**	**63,307**	**62,518**
Washington	17,552	16,918	16,850
Oregon	11,647	11,107	10,887
California	40,838	40,500	37,751
Pacific	**70,037**	**68,525**	**65,488**
Alaska	79	80	70
Hawaii	1,459	1,386	1,379
Alaska & Hawaii	**1,538**	**1,466**	**1,449**

Nominal Voltage	Circuit Miles 1984	Circuit Miles 1983r	Circuit Miles 1982r
Total	**599,773**	**590,655**	**580,485**
22,000- 30,000	80,145	79,285	76,564
31,000- 40,000	65,832	65,285	63,360
41,000- 50,000	38,054	37,266	36,515
51,000- 70,000	104,888	102,217	102,854
71,000-131,000	92,902	94,373	91,825
132,000-143,000	67,251	64,173	64,024
144,000-188,000	22,491	24,507	23,842
189,000-253,000	60,566	60,742	60,548
254,000-400,000	42,311	39,669	38,507
401,000-600,000	22,391	20,466	19,815
601,000-800,000	2,942	2,672	2,631

**Does not include the following miles of line operated by REA Cooperatives: 1984—70,400; 1983—69,200; 1982—68,300.*

r Revised.

TABLE 89

CIRCUIT MILES OF OVERHEAD ELECTRIC LINE OF 22,000 VOLTS AND ABOVE IN SERVICE—INVESTOR-OWNED ELECTRIC UTILITIES

BY STATE AND VOLTAGE GROUPS

Division/State	Circuit Miles 1984	Circuit Miles 1983r	Circuit Miles 1982r
Total United States	**473,809**	**465,491**	**462,524**
Maine	3,715	3,711	3,625
New Hampshire	2,275	2,267	2,214
Vermont	2,005	1,993	1,948
Massachusetts	5,243	5,229	5,227
Rhode Island	707	703	700
Connecticut	1,706	1,702	1,684
New England	**15,651**	**15,605**	**15,398**
New York	19,018	19,176	18,964
New Jersey	6,252	6,259	6,234
Pennsylvania	19,328	19,484	19,294
Middle Atlantic	**44,598**	**44,919**	**44,492**
Ohio	21,276	21,329	21,284
Indiana	14,765	14,656	14,499
Illinois	16,734	16,160	16,194
Michigan	17,897	17,902	17,806
Wisconsin	9,555	9,522	9,524
East North Central	**80,227**	**79,569**	**79,307**
Minnesota	10,025	10,015	10,034
Iowa	10,435	10,632	10,598
Missouri	10,801	10,104	10,641
North Dakota	5,011	4,940	4,889
South Dakota	3,328	3,430	3,428
Nebraska	94	94	94
Kansas	10,057	9,915	9,777
West North Central	**49,751**	**49,130**	**49,461**
Delaware	1,040	2,181	2,191
Maryland	8,673	8,646	8,596
District of Columbia	12	12	12
Virginia	10,839	10,709	10,633
West Virginia	7,396	7,449	7,203
North Carolina	22,368	22,035	21,767
South Carolina	15,873	15,720	15,631
Georgia	16,340	15,880	15,805
Florida	12,031	11,422	11,324
South Atlantic	**94,572**	**94,054**	**93,162**
Kentucky	7,873	7,540	7,519
Tennessee	242	239	237
Alabama	9,633	9,596	9,565
Mississippi	9,471	9,344	9,266
East South Central	**27,219**	**26,719**	**26,587**
Arkansas	6,486	6,209	6,149
Louisiana	11,221	10,948	10,694
Oklahoma	8,410	8,084	8,056
Texas	40,580	39,466	39,307
West South Central	**66,697**	**64,707**	**64,206**
Montana	8,049	8,104	7,706
Idaho	10,748	10,677	10,626
Wyoming	2,987	2,949	2,943
Colorado	4,389	4,416	4,417
New Mexico	6,767	6,273	5,887
Arizona	6,803	6,671	6,823
Utah	5,606	5,598	5,585
Nevada	4,455	4,438	4,443
Mountain	**49,804**	**49,126**	**48,430**
Washington	4,014	3,697	3,719
Oregon	6,190	5,763	5,763
California	33,625	30,814	30,618
Pacific	**43,829**	**40,274**	**40,100**
Alaska	2	2	2
Hawaii	1,459	1,386	1,379
Alaska & Hawaii	**1,461**	**1,388**	**1,381**

Nominal Voltage	Circuit Miles 1984	Circuit Miles 1983r	Circuit Miles 1982r
Total	**473,809**	**465,491**	**462,524**
22,000- 30,000	49,745	49,994	49,278
31,000- 40,000	58,664	55,996	55,960
41,000- 50,000	33,186	33,070	33,081
51,000- 70,000	87,138	85,115	86,862
71,000-131,000	74,628	75,791	73,533
132,000-143,000	61,061	60,518	60,588
144,000-188,000	10,048	9,703	9,739
189,000-253,000	45,139	45,472	45,114
254,000-400,000	35,954	34,569	33,630
401,000-600,000	15,014	13,300	12,818
601,000-800,000	2,232	1,963	1,921

r Revised.

TABLE 90

AVERAGE NUMBER OF EMPLOYEES INVESTOR-OWNED ELECTRIC UTILITIES

ELECTRIC DEPARTMENT

Year	Operation and Maintenance	Construction	Total
1984	**395,500**	**120,600**	**516,100**
1983	397,800	115,400	513,200
1982	388,400	116,700	505,100
1981	375,900	114,600	490,500
1980	368,400	108,200	476,600
1979	356,200	106,800	463,000
1978	341,500	103,000	444,500
1977	326,800	99,700	426,500
1976	317,600	99,100	416,700
1975	310,500	101,000	411,500
1974	311,700	107,400	419,100
1973	307,200	107,900	415,100
1972	299,200	102,300	401,500
1971	295,200	98,500	393,700
1970	290,200	94,700	384,900
1969	282,600	89,900	372,500
1968	279,300	86,000	365,300
1967	275,500	81,900	357,400
1966	271,000	78,100	349,100
1965	268,400	77,000	345,400
1964	268,600	72,900	341,500

GLOSSARY

Allowance for Funds Used During Construction (AFUDC): An amount recorded by a company to represent the cost of those funds used to finance construction work in progress. See Glossary of Electric Utility Terms.

Capability: The maximum load which a generating unit, generating station, or other electrical apparatus can carry under specified conditions for a given period of time, without exceeding approved limits of temperature and stress.

Capacity: The load for which a generating unit, generating station, or other electrical apparatus is rated either by the user or by the manufacturer. See also Name Plate Rating.

Capital Expenditures: Cost of construction of new utility plant (additions, betterments, and replacements) and expenditures for the purchase or acquisition of existing utility plant facilities.

Capitalization: The total of: Long-Term Debt, Preferred Stock and Common Stock Equity. For balance sheet presentation, several modifications are sometimes made: current maturities of Long-Term Debt are not included in the Capitalization section, but Short-Term Debt (with an original maturity of less than one year) which will be refinanced by Long-Term Debt is sometimes included.

Class of Service: A group of customers with similar characteristics (i.e., residential, commercial, industrial, sales for resale, etc.) which are identified for the purpose of setting a rate for electric service.

Construction Expenditures: Expenditures (may or may not include Interest and/or Other Overheads Charged to Construction) for construction including additions to and betterments, renewals, and replacements of utility plant during a specific period, but not money spent for maintenance or for the acquisition of existing utility systems or segments.

Consumer Price Index (CPI): This index is issued by the U.S. Department of Labor, Bureau of Labor Statistics, as a measure of average changes in the retail prices of goods and services usually bought by two groups. The first group consists of the families of wage earners and clerical workers living in cities. The second group consists of all urban consumers.

Customers, Average: The arithmetic averages of month-end customers in each of 12 consecutive months. For those billed other than every month, the number of such customers is adjusted to a 12-month basis (e.g., for bimonthly billing the number of customers billed, or counted, in each month is multiplied by two and the resultant averaged for the 12-month period).

Demand: The rate at which electric energy is delivered to or by a system, part of a system, or a piece of equipment. It is expressed in kilowatts, kilovoltamperes or other suitable unit at a given instant or averaged over any designated period of time. The primary source of "Demand" is the power-consuming equipment of the customers.

Electric Generation—Net: Gross generation less kilowatthours consumed for generation station use.

Electric Utility Industry: All enterprises engaged in the production and/or distribution of electricity for use by the public, including:

Investor-Owned Electric Utilities organized as tax-paying business usually financed by the sale of securities, in the free market.

Cooperatively-Owned Utilities A group of persons who have organized a joint venture for the purpose of supplying electric energy to a specified area.

Government-Owned includes municipal systems, federal agencies, state projects, and public power districts, and, where the data are not separable, those industrial plants contributing to the public supply.

Expenses, Operating: A group of expenses applicable to utility operations composed of: Operation Expense, Maintenance Expense, Provisions for Depreciation and Amortization, Taxes Other Than Income Taxes, Income Taxes, Provisions for Deferred Income Taxes, Income Taxes Deferred in Prior Years—Credit, and Investment Tax Credit Adjustments—Net.

Fuels, Fossil: Any naturally occurring fuel of an organic nature, such as coal, crude oil, and natural gas.

Industrial Electric Power: Electric generating stations operated by Industrial establishments.

Load Factor: The ratio of the average load in kilowatts supplied during a designated period to the peak or maximum load in kilowatts occurring in that period. Load factor, in percent, also may be derived by multiplying the kilowatthours in the period by 100 and dividing by the product of the maximum demand in kilowatts and the number of hours in the period.

Margin, Percent Capacity: The difference between capability and peak load divided by the capability times 100. Should not be confused with Percent Reserve Margin in which the difference is divided by the peak load.

Name Plate Rating: The full-load continuous rating of a generator, prime mover or other electrical equipment under specified conditions as designated by the manufacturer.

Output, Weekly Electric: The sum of the system output of all investor-owned utilities, rural electric cooperatives, and government power projects in the contiguous United States adjusted for all inter-utility deliveries.

Peak Load: See Demand—The greatest demand which occurs during a specified period of time.

Prime Mover: The engine, turbine, water wheel, or similar machine which drives an electric generator.

Producers Price Index: Formerly known as the wholesale price index, this index is the oldest continuous statistical series published by BLS. It is designed to measure average changes in prices of all commodities, at all stages of processing, produced or imported for sale in primary markets in the U.S.

Revenue, Average: Revenue from the sale of electricity (exclusive or forfeited discounts and penalties) for a particular class of service divided by the corresponding number of kilowatthours sold.

Utility Plant, Electric: All equipment used for the generation, transmission, and distribution of electricity, or an account in which record is kept of this equipment. Includes plant in service, purchased or sold, in process of reclassification, leased to others, held for future use, and under construction, and acquisition adjustments and adjustment accounts, without deduction of Accumulated Provision for Depreciation and Amortization.

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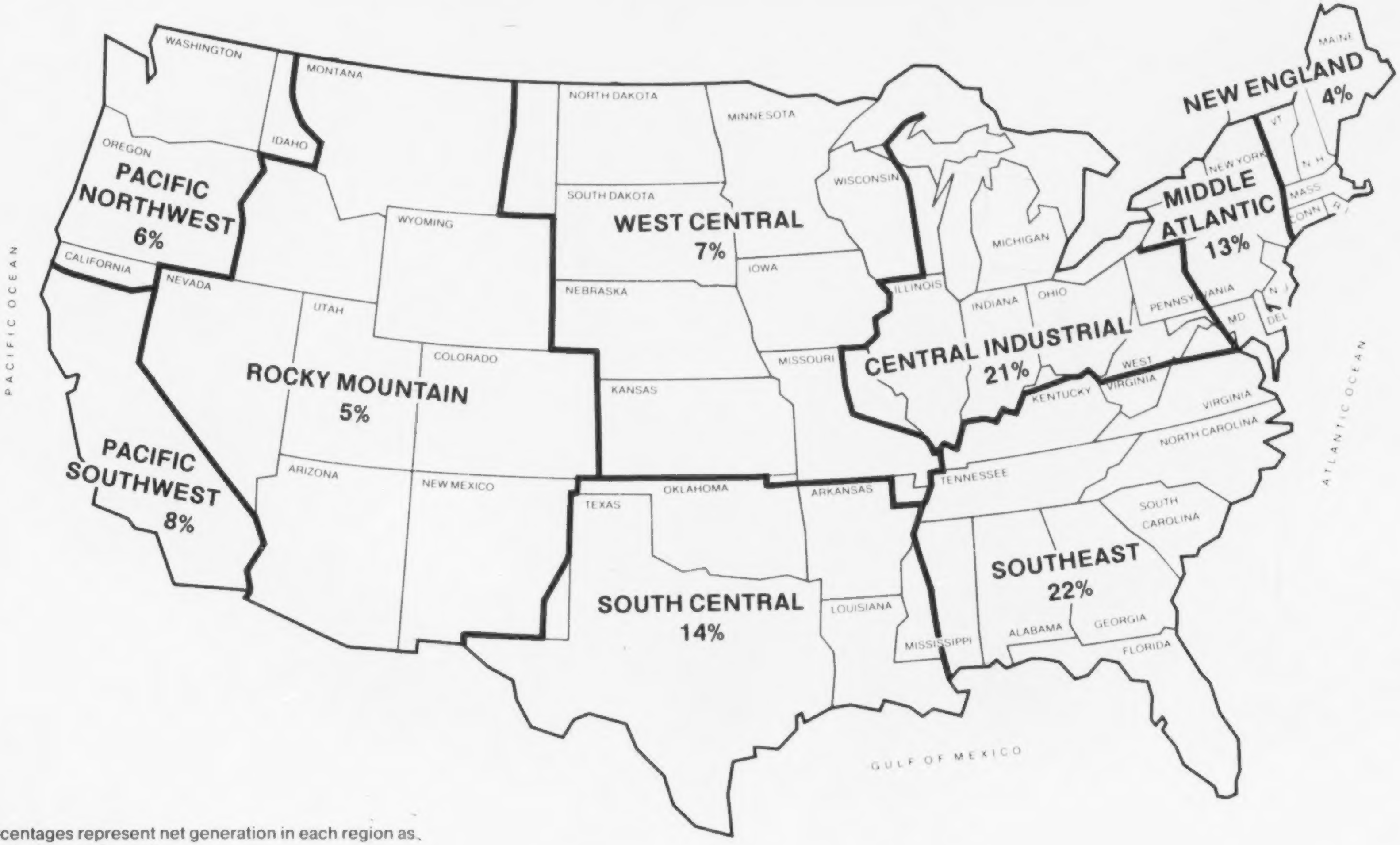
MAJOR GEOGRAPHIC DIVISIONS AS REPORTED BY THE EDISON ELECTRIC INSTITUTE IN ITS WEEKLY RELEASE OF ELECTRIC OUTPUT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NEW YORK
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N J
MD
DEL
CENTRAL INDUSTRIAL
21%
MICHIGAN
ILLINOIS
INDIANA
OHIO
KENTUCKY
WEST
VIRGINIA
SOUTHEAST
22%
VIRGINIA
NORTH CAROLINA
SOUTH
CAROLINA
TENNESSEE
MISSISSIPPI
ALABAMA
GEORGIA
FLORIDA
WEST CENTRAL
7%
NORTH DAKOTA
MINNESOTA
WISCONSIN
SOUTH DAKOTA
NEBRASKA
IOWA
MISSOURI
KANSAS
SOUTH CENTRAL
14%
OKLAHOMA
ARKANSAS
TEXAS
LOUISIANA
ROCKY MOUNTAIN
5%
MONTANA
IDAHO
WYOMING
NEVADA
UTAH
COLORADO
ARIZONA
NEW MEXICO
PACIFIC
NORTHWEST
6%
WASHINGTON
OREGON
PACIFIC
SOUTHWEST
8%
CALIFORNIA
PACIFIC OCEAN
ATLANTIC OCEAN
GULF OF MEXICO

Percentages represent net generation in each region as adjusted for net imports.

January 1, 1985

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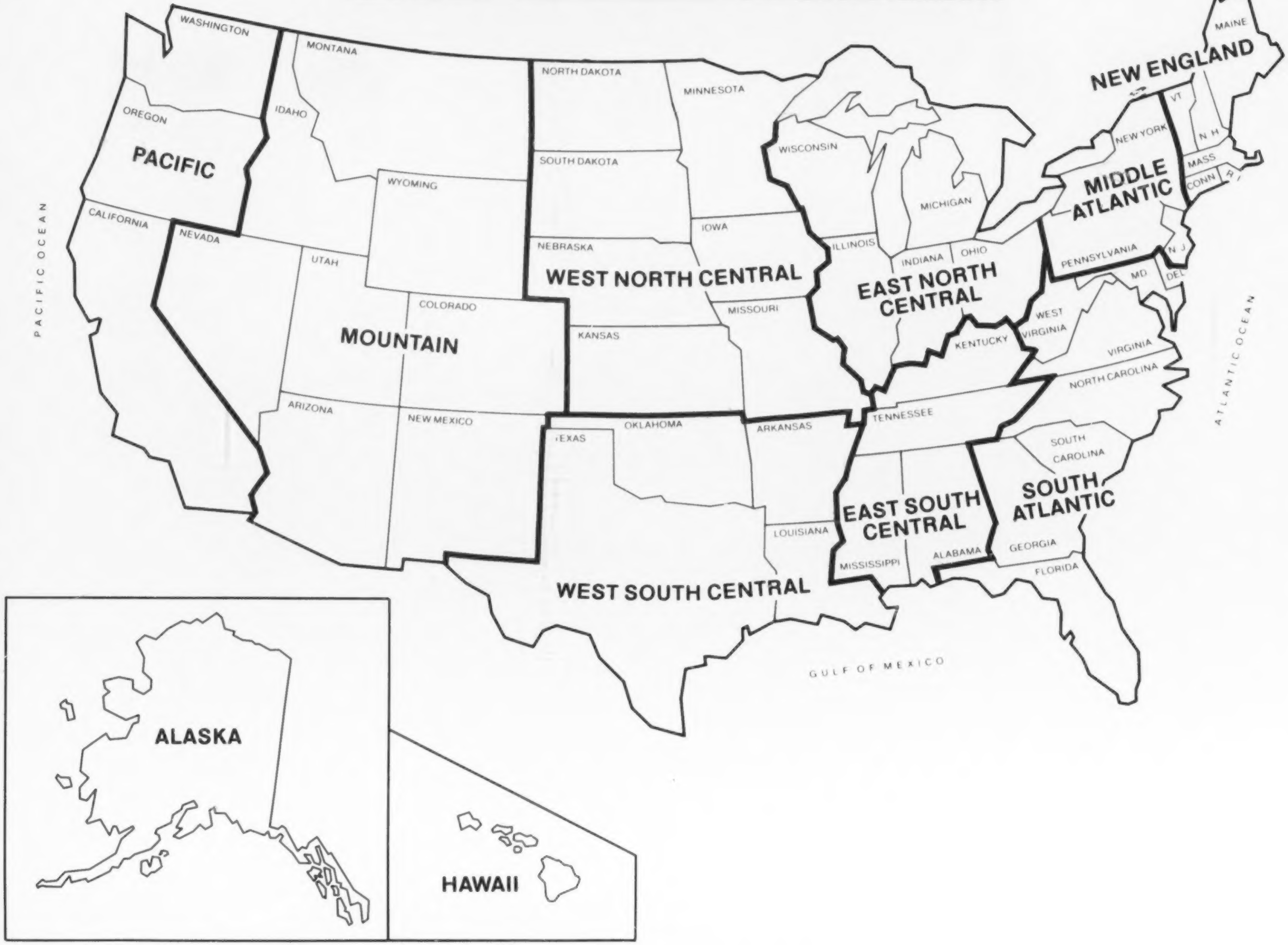
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NORTH DAKOTA
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